

SAFETY DATA SHEET



AdvanceBio Amino Acid reagent kit, Part Number 5190-9426

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name	: AdvanceBio Amino Acid reagent kit, Part Number 5190-9426
Part no. (chemical kit)	: 5190-9426
Part no.	: Sarcosine, Part Number 5062-2478*
	5062-2478
	L-Tryptophan, Part Number 5062-2478*
	5062-2478
	L-Norvaline, Part Number 5062-2478*
	5062-2478
	L-Glutamine, Part Number 5062-2478*
	5062-2478
	L-Asparagine, Part Number 5062-2478*
	5062-2478
	L-4-Hydroxyproline, Part Number 5062-2478*
	5062-2478
	Dithiodipropionic, Part Number 5062-2479
	5062-2479
	td 1nmol 10/PK, Part Number 5061-3330
	5061-3330
	AA, standard 250PMOL 10/PK, Part Number 5061-3331
	5061-3331
	AA, standard 100PMOL 10/PK, Part Number 5061-3332
	5061-3332
	AA, std 25pmol 10/PK, Part Number 5061-3333
	5061-3333
	AA, std 10pmol 10/PK, Part Number 5061-3334
	5061-3334
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335
	5061-3335
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337
	5061-3337
	Buffer, Borate 100ml/BT, Part Number 5061-3339
	5061-3339

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses	: Reagents and Standards for Analytical Chemistry Laboratory Use
	Sarcosine, Part Number 5062-2478 1 x 1 g
	L-Tryptophan, Part Number 5062-2478 1 x 1 g
	L-Norvaline, Part Number 5062-2478 1 x 1 g
	L-Glutamine, Part Number 5062-2478 1 x 1 g
	L-Asparagine, Part Number 5062-2478 1 x 1 g
	L-4-Hydroxyproline, Part Number 5062-2478 1 x 1 g
	Dithiodipropionic, Part Number 5062-2479 1 x 5 g
	td 1nmol 10/PK, Part Number 5061-3330 10 x 1 ml
	AA, standard 250PMOL 10/PK, Part Number 5061-3331 10 x 1 ml
	AA, standard 100PMOL 10/PK, Part Number 5061-3332 10 x 1 ml
	AA, std 25pmol 10/PK, Part Number 5061-3333 10 x 1 ml

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5061-3333	
AA, std 10pmol 10/PK, Part Number	10 x 1 ml
5061-3334	
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	6 x 1 ml
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	10 x 1 ml
Buffer, Borate 100ml/BT, Part Number 5061-3339	1 x 100 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

Note * : 5062-2478 AA supplement, 1g ea N 6 x 1 g
A kit containing: Sarcosine; L-Tryptophan; L-Norvaline; L-Glutamine; L-Asparagine; L-4-Hydroxyproline

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	Sarcosine, Part Number 5062-2478	Mono-constituent substance
		L-Tryptophan, Part Number 5062-2478	Mono-constituent substance
		L-Norvaline, Part Number 5062-2478	Mono-constituent substance
		L-Glutamine, Part Number 5062-2478	Mono-constituent substance
		L-Asparagine, Part Number 5062-2478	Mono-constituent substance
		L-4-Hydroxyproline, Part Number 5062-2478	Mono-constituent substance
		Dithiodipropionic, Part Number 5062-2479	Mono-constituent substance
		td 1nmol 10/PK, Part Number 5061-3330	Mixture
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Mixture
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	Mixture
		AA, std 25pmol 10/PK, Part Number 5061-3333	Mixture
		AA, std 10pmol 10/PK, Part Number 5061-3334	Mixture
		OPA reagent, 10 mg/ml,	Mixture

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6 ampoules, Part
Number 5061-3335
Fmoc reagent 10 Mixture
ampoules 1ml ea for
AAA, Part Number
5061-3337
Buffer, Borate 100ml/BT, Mixture
Part Number 5061-3339

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Dithiodipropionic, Part Number 5062-2479

H315 SKIN CORROSION/IRRITATION - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
H335 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract
irritation) - Category 3

td 1nmol 10/PK, Part Number 5061-3330

H290 CORROSIVE TO METALS - Category 1

AA, standard 250PMOL 10/PK, Part Number 5061-3331

H290 CORROSIVE TO METALS - Category 1

AA, standard 100PMOL 10/PK, Part Number 5061-3332

H290 CORROSIVE TO METALS - Category 1

AA, std 25pmol 10/PK, Part Number 5061-3333

H290 CORROSIVE TO METALS - Category 1

AA, std 10pmol 10/PK, Part Number 5061-3334

H290 CORROSIVE TO METALS - Category 1

OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335

H302 ACUTE TOXICITY (oral) - Category 4
H314 SKIN CORROSION/IRRITATION - Category 1A
H317 SKIN SENSITISATION - Category 1
H411 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337

H225 FLAMMABLE LIQUIDS - Category 2
H302 ACUTE TOXICITY (oral) - Category 4
H312 ACUTE TOXICITY (dermal) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Buffer, Borate 100ml/BT, Part Number 5061-3339

H315 SKIN CORROSION/IRRITATION - Category 2
H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

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SECTION 2: Hazards identification

Ingredients of unknown toxicity : OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335

Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms

Dithiodipropionic, Part Number 5062-2479



td 1nmol 10/PK, Part Number 5061-3330



AA, standard 250PMOL 10/PK, Part Number 5061-3331



AA, standard 100PMOL 10/PK, Part Number 5061-3332



AA, std 25pmol 10/PK, Part Number 5061-3333



AA, std 10pmol 10/PK, Part Number 5061-3334



OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335



FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337



Buffer, Borate 100ml/BT, Part Number 5061-3339



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Signal word	:	<p>Sarcosine, Part Number 5062-2478 No signal word.</p> <p>L-Tryptophan, Part Number 5062-2478 No signal word.</p> <p>L-Norvaline, Part Number 5062-2478 No signal word.</p> <p>L-Glutamine, Part Number 5062-2478 No signal word.</p> <p>L-Asparagine, Part Number 5062-2478 No signal word.</p> <p>L-4-Hydroxyproline, Part Number 5062-2478 No signal word.</p> <p>Dithiodipropionic, Part Number 5062-2479 Warning</p> <p>td 1nmol 10/PK, Part Number 5061-3330 Warning</p> <p>AA, standard 250PMOL 10/PK, Part Number 5061-3331 Warning</p> <p>AA, standard 100PMOL 10/PK, Part Number 5061-3332 Warning</p> <p>AA, std 25pmol 10/PK, Part Number 5061-3333 Warning</p> <p>AA, std 10pmol 10/PK, Part Number 5061-3334 Warning</p> <p>OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Danger</p> <p>Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Danger</p> <p>Buffer, Borate 100ml/BT, Part Number 5061-3339 Warning</p>
Hazard statements	:	<p>Sarcosine, Part Number 5062-2478 No known significant effects or critical hazards.</p> <p>L-Tryptophan, Part Number 5062-2478 No known significant effects or critical hazards.</p> <p>L-Norvaline, Part Number 5062-2478 No known significant effects or critical hazards.</p> <p>L-Glutamine, Part Number 5062-2478 No known significant effects or critical hazards.</p> <p>L-Asparagine, Part Number 5062-2478 No known significant effects or critical hazards.</p> <p>L-4-Hydroxyproline, Part Number 5062-2478 No known significant effects or critical hazards.</p> <p>Dithiodipropionic, Part Number 5062-2479 H319 - Causes serious eye irritation. H315 - Causes skin irritation. H335 - May cause respiratory irritation. H290 - May be corrosive to metals.</p> <p>td 1nmol 10/PK, Part Number 5061-3330 H290 - May be corrosive to metals.</p> <p>AA, standard 250PMOL 10/PK, Part Number 5061-3331 H290 - May be corrosive to metals.</p> <p>AA, standard 100PMOL 10/PK, Part Number 5061-3332 H290 - May be corrosive to metals.</p> <p>AA, std 25pmol 10/PK, Part Number 5061-3333 H290 - May be corrosive to metals.</p>

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AA, std 10pmol 10/PK, Part Number 5061-3334	H290 - May be corrosive to metals.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	H302 - Harmful if swallowed.
	H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H411 - Toxic to aquatic life with long lasting effects. H225 - Highly flammable liquid and vapour.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	
	H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H319 - Causes serious eye irritation. H319 - Causes serious eye irritation.
Buffer, Borate 100ml/BT, Part Number 5061-3339	H315 - Causes skin irritation.

Precautionary statements

Prevention

: <input checked="" type="checkbox"/> Sarcosine, Part Number 5062-2478	Not applicable.
L-Tryptophan, Part Number 5062-2478	Not applicable.
L-Norvaline, Part Number 5062-2478	Not applicable.
L-Glutamine, Part Number 5062-2478	Not applicable.
L-Asparagine, Part Number 5062-2478	Not applicable.
L-4-Hydroxyproline, Part Number 5062-2478	Not applicable.
Dithiodipropionic, Part Number 5062-2479	P280 - Wear protective gloves. Wear eye or face protection. P261 - Avoid breathing dust.
td 1nmol 10/PK, Part Number 5061-3330	P234 - Keep only in original packaging.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	P234 - Keep only in original packaging.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	P234 - Keep only in original packaging.
AA, std 25pmol 10/PK, Part Number 5061-3333	P234 - Keep only in original packaging.
AA, std 10pmol 10/PK, Part Number 5061-3334	P234 - Keep only in original packaging.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	P273 - Avoid release to the environment. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Buffer, Borate 100ml/BT, Part Number 5061-3339	P280 - Wear protective gloves. Wear eye or face protection. P264 - Wash hands thoroughly after handling.

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SECTION 2: Hazards identification

Response	: S arcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331 AA, standard 100PMOL 10/PK, Part Number 5061-3332 AA, std 25pmol 10/PK, Part Number 5061-3333 AA, std 10pmol 10/PK, Part Number 5061-3334 OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P390 - Absorb spillage to prevent material damage. P390 - Absorb spillage to prevent material damage. P390 - Absorb spillage to prevent material damage. P390 - Absorb spillage to prevent material damage. P390 - Absorb spillage to prevent material damage. P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or physician. P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	: S arcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P405 - Store locked up. P406 - Store in corrosive resistant container with a resistant

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	Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331	inner liner. P406 - Store in corrosive resistant container with a resistant inner liner.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	P406 - Store in corrosive resistant container with a resistant inner liner.
	AA, std 25pmol 10/PK, Part Number 5061-3333	P406 - Store in corrosive resistant container with a resistant inner liner.
	AA, std 10pmol 10/PK, Part Number 5061-3334	P406 - Store in corrosive resistant container with a resistant inner liner.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	P405 - Store locked up.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not applicable.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.
Disposal	: S arcosine, Part Number 5062-2478	Not applicable.
	L-Tryptophan, Part Number 5062-2478	Not applicable.
	L-Norvaline, Part Number 5062-2478	Not applicable.
	L-Glutamine, Part Number 5062-2478	Not applicable.
	L-Asparagine, Part Number 5062-2478	Not applicable.
	L-4-Hydroxyproline, Part Number 5062-2478	Not applicable.
	Dithiodipropionic, Part Number 5062-2479	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	td 1nmol 10/PK, Part Number 5061-3330	Not applicable.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not applicable.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not applicable.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not applicable.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not applicable.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.

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Hazardous ingredients	: OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	- potassium hydroxide - 3-Mercaptopropionic acid - methanol - Phthalaldehyde - acetonitrile
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.
Supplemental label elements	: <input checked="" type="checkbox"/> Sarcosine, Part Number 5062-2478	Not applicable.
	L-Tryptophan, Part Number 5062-2478	Not applicable.
	L-Norvaline, Part Number 5062-2478	Not applicable.
	L-Glutamine, Part Number 5062-2478	Not applicable.
	L-Asparagine, Part Number 5062-2478	Not applicable.
	L-4-Hydroxyproline, Part Number 5062-2478	Not applicable.
	Dithiodipropionic, Part Number 5062-2479	Not applicable.
	td 1nmol 10/PK, Part Number 5061-3330	Not applicable.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not applicable.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not applicable.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not applicable.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not applicable.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Contains isocyanates. May produce an allergic reaction.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not applicable.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Sarcosine, Part Number 5062-2478	Not applicable.
	L-Tryptophan, Part Number 5062-2478	Not applicable.
	L-Norvaline, Part Number 5062-2478	Not applicable.
	L-Glutamine, Part Number 5062-2478	Not applicable.
	L-Asparagine, Part Number 5062-2478	Not applicable.
	L-4-Hydroxyproline, Part Number 5062-2478	Not applicable.
	Dithiodipropionic, Part Number 5062-2479	Not applicable.

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td 1nmol 10/PK, Part Number 5061-3330	Not applicable.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not applicable.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not applicable.
AA, std 25pmol 10/PK, Part Number 5061-3333	Not applicable.
AA, std 10pmol 10/PK, Part Number 5061-3334	Not applicable.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not applicable.
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not applicable.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.

Special packaging requirements

Tactile warning of danger	: Sarcosine, Part Number 5062-2478	Not applicable.
	L-Tryptophan, Part Number 5062-2478	Not applicable.
	L-Norvaline, Part Number 5062-2478	Not applicable.
	L-Glutamine, Part Number 5062-2478	Not applicable.
	L-Asparagine, Part Number 5062-2478	Not applicable.
	L-4-Hydroxyproline, Part Number 5062-2478	Not applicable.
	Dithiodipropionic, Part Number 5062-2479	Not applicable.
	td 1nmol 10/PK, Part Number 5061-3330	Not applicable.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not applicable.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not applicable.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not applicable.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not applicable.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not applicable.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not applicable.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.	

2.3 Other hazards

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Other hazards which do not result in classification	:	Sarcosine, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
		L-Tryptophan, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
		L-Norvaline, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
		L-Glutamine, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
		L-Asparagine, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
		L-4-Hydroxyproline, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
		Dithiodipropionic, Part Number 5062-2479	May form explosible dust-air mixture if dispersed.
		td 1nmol 10/PK, Part Number 5061-3330	None known.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	None known.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	None known.
		AA, std 25pmol 10/PK, Part Number 5061-3333	None known.
		AA, std 10pmol 10/PK, Part Number 5061-3334	None known.
		OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Causes digestive tract burns.
		FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	None known.
		Buffer, Borate 100ml/BT, Part Number 5061-3339	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	<input checked="" type="checkbox"/> Sarcosine, Part Number 5062-2478	Mono-constituent substance
		L-Tryptophan, Part Number 5062-2478	Mono-constituent substance
		L-Norvaline, Part Number 5062-2478	Mono-constituent substance
		L-Glutamine, Part Number 5062-2478	Mono-constituent substance
		L-Asparagine, Part Number 5062-2478	Mono-constituent substance
		L-4-Hydroxyproline, Part Number 5062-2478	Mono-constituent substance
		Dithiodipropionic, Part Number 5062-2479	Mono-constituent substance
		td 1nmol 10/PK, Part Number 5061-3330	Mixture
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Mixture
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	Mixture
		AA, std 25pmol 10/PK, Part Number 5061-3333	Mixture
		AA, std 10pmol 10/PK, Part Number 5061-3334	Mixture

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OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Mixture
 FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Mixture
 Buffer, Borate 100ml/BT, Part Number 5061-3339 Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Sarcosine, Part Number 5062-2478 Sarcosine	EC: 203-538-6 CAS: 107-97-1	100	Not classified.	[A]
L-Tryptophan, Part Number 5062-2478 L-Tryptophan	EC: 200-795-6 CAS: 73-22-3	100	Not classified.	[A]
L-Norvaline, Part Number 5062-2478 Norvaline	EC: 229-543-3 CAS: 6600-40-4	100	Not classified.	[A]
L-Glutamine, Part Number 5062-2478 Levoglutamide	EC: 200-292-1 CAS: 56-85-9	100	Not classified.	[A]
L-Asparagine, Part Number 5062-2478 Asparagine	EC: 200-735-9 CAS: 70-47-3	100	Not classified.	[A]
L-4-Hydroxyproline, Part Number 5062-2478 L-4-Hydroxyproline	EC: 200-091-9 CAS: 51-35-4	100	Not classified.	[A]
Dithiodipropionic, Part Number 5062-2479 3,3'-dithiobispropionic acid	EC: 214-284-0 CAS: 1119-62-6	100	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[A]
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Potassium hydroxide	EC: 215-181-3 CAS: 1310-58-3 Index: 019-002-00-8	≤10	Acute Tox. 4, H302 Skin Corr. 1A, H314	[1] [2]
boric acid	EC: 233-139-2 CAS: 10043-35-3 Index: 005-007-00-2	≤5	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
3-Mercaptopropionic acid	EC: 203-537-0 CAS: 107-96-0	≤3	Met. Corr. 1, H290 Acute Tox. 3, H301 Acute Tox. 4, H332 Skin Corr. 1B, H314 Aquatic Chronic 2, H411	[1]
Methanol	EC: 200-659-6	<3	Flam. Liq. 2, H225	[1] [2]

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SECTION 3: Composition/information on ingredients

Phthalaldehyde	CAS: 67-56-1 Index: 603-001-00-X EC: 211-402-2 CAS: 643-79-8	<2.5	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 Acute Tox. 3, H301 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1]
Potassium thiocyanate	EC: 206-370-1 CAS: 333-20-0 Index: 615-030-00-5	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412	[1] [2]
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Acetonitrile	EC: 200-835-2 CAS: 75-05-8 Index: 608-001-00-3	≥90	Flam. Liq. 2, H225 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1] [2]
Buffer, Borate 100ml/BT, Part Number 5061-3339 boric acid	EC: 233-139-2 CAS: 10043-35-3 Index: 005-007-00-2	≤1	Repr. 1B, H360FD (Fertility and Unborn child)	[1]
Sodium hydroxide	EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6	≤1	Skin Corr. 1A, H314	[1] [2]
See Section 16 for the full text of the H statements declared above.				

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy
- [A] Constituent
- [B] Impurity
- [C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Sarcosine, Part Number 5062-2478	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	L-Tryptophan, Part Number 5062-2478	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	L-Norvaline, Part Number 5062-2478	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

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SECTION 4: First aid measures

L-Glutamine, Part Number 5062-2478	any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
L-Asparagine, Part Number 5062-2478	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
L-4-Hydroxyproline, Part Number 5062-2478	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Dithiodipropionic, Part Number 5062-2479	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
td 1nmol 10/PK, Part Number 5061-3330	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
AA, std 25pmol 10/PK, Part Number 5061-3333	Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
AA, std 10pmol 10/PK, Part Number 5061-3334	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	
: Sarcosine, Part Number 5062-2478	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Tryptophan, Part Number 5062-2478	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Norvaline, Part	Remove victim to fresh air and keep at rest in a position

SECTION 4: First aid measures

Number 5062-2478	comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Glutamine, Part Number 5062-2478	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Asparagine, Part Number 5062-2478	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-4-Hydroxyproline, Part Number 5062-2478	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Dithiodipropionic, Part Number 5062-2479	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
td 1nmol 10/PK, Part Number 5061-3330	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in

SECTION 4: First aid measures

	recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
AA, std 25pmol 10/PK, Part Number 5061-3333	Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
AA, std 10pmol 10/PK, Part Number 5061-3334	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health

SECTION 4: First aid measures

Skin contact

		effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	: Sarcosine, Part Number 5062-2478	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	L-Tryptophan, Part Number 5062-2478	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	L-Norvaline, Part Number 5062-2478	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	L-Glutamine, Part Number 5062-2478	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	L-Asparagine, Part Number 5062-2478	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	L-4-Hydroxyproline, Part Number 5062-2478	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Dithiodipropionic, Part Number 5062-2479	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	td 1nmol 10/PK, Part Number 5061-3330	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention if

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		adverse health effects persist or are severe. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Sarcosine, Part Number 5062-2478	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	L-Tryptophan, Part Number 5062-2478	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	L-Norvaline, Part Number 5062-2478	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	L-Glutamine, Part Number 5062-2478	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	L-Asparagine, Part Number 5062-2478	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	L-4-Hydroxyproline, Part Number 5062-2478	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Dithiodipropionic, Part Number 5062-2479	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	td 1nmol 10/PK, Part Number 5061-3330	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as

SECTION 4: First aid measures

	<p>vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
AA, standard 250PMOL 10/PK, Part Number 5061-3331	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
AA, standard 100PMOL 10/PK, Part Number 5061-3332	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
AA, std 25pmol 10/PK, Part Number 5061-3333	<p>Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>
AA, std 10pmol 10/PK, Part Number 5061-3334	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery</p>

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OPA reagent, 10 mg/ml,
6 ampoules, Part
Number 5061-3335

position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

FMOC reagent 10
ampoules 1ml ea for
AAA, Part Number
5061-3337

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Buffer, Borate 100ml/BT,
Part Number 5061-3339

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders : Sarcosine, Part Number 5062-2478
L-Tryptophan, Part Number 5062-2478
L-Norvaline, Part Number 5062-2478
L-Glutamine, Part Number 5062-2478
L-Asparagine, Part Number 5062-2478
L-4-Hydroxyproline, Part Number 5062-2478
Dithiodipropionic, Part Number 5062-2479

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous

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td 1nmol 10/PK, Part Number 5061-3330	to the person providing aid to give mouth-to-mouth resuscitation.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
AA, std 25pmol 10/PK, Part Number 5061-3333	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
AA, std 10pmol 10/PK, Part Number 5061-3334	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
Buffer, Borate 100ml/BT, Part Number 5061-3339	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Sarcosine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Tryptophan, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Norvaline, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Glutamine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Asparagine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-4-Hydroxyproline, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	Dithiodipropionic, Part Number 5062-2479	Causes serious eye irritation.

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	td 1nmol 10/PK, Part Number 5061-3330	No known significant effects or critical hazards.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No known significant effects or critical hazards.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No known significant effects or critical hazards.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Corrosive to eyes. Causes burns.
	AA, std 10pmol 10/PK, Part Number 5061-3334	No known significant effects or critical hazards.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Causes serious eye damage.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Causes serious eye irritation.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Causes serious eye irritation.
Inhalation	: Sarcosine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	L-Tryptophan, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	L-Norvaline, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	L-Glutamine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	L-Asparagine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	L-4-Hydroxyproline, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	Dithiodipropionic, Part Number 5062-2479	May cause respiratory irritation.
	td 1nmol 10/PK, Part Number 5061-3330	No known significant effects or critical hazards.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No known significant effects or critical hazards.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No known significant effects or critical hazards.
	AA, std 25pmol 10/PK, Part Number 5061-3333	May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
	AA, std 10pmol 10/PK, Part Number 5061-3334	No known significant effects or critical hazards.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No known significant effects or critical hazards.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Harmful if inhaled.
	Buffer, Borate 100ml/BT,	No known significant effects or critical hazards.

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Skin contact	: Sarcosine, Part Number 5061-3339 Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331 AA, standard 100PMOL 10/PK, Part Number 5061-3332 AA, std 25pmol 10/PK, Part Number 5061-3333 AA, std 10pmol 10/PK, Part Number 5061-3334 OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Buffer, Borate 100ml/BT, Part Number 5061-3339	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Causes skin irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. Corrosive to the skin. Causes burns. No known significant effects or critical hazards. Causes severe burns. May cause an allergic skin reaction. Harmful in contact with skin. Causes skin irritation.
Ingestion	: Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331 AA, standard 100PMOL 10/PK, Part Number 5061-3332 AA, std 25pmol 10/PK, Part Number 5061-3333 AA, std 10pmol 10/PK, Part Number 5061-3334	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. May cause burns to mouth, throat and stomach. No known significant effects or critical hazards.

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OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Harmful if swallowed.
Buffer, Borate 100ml/BT, Part Number 5061-3339	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: Sarcosine, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
L-Tryptophan, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
L-Norvaline, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
L-Glutamine, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
L-Asparagine, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
L-4-Hydroxyproline, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
Dithiodipropionic, Part Number 5062-2479	Adverse symptoms may include the following: pain or irritation watering redness
td 1nmol 10/PK, Part Number 5061-3330	No specific data.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific data.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
AA, std 25pmol 10/PK, Part Number 5061-3333	Adverse symptoms may include the following: pain watering redness
AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Adverse symptoms may include the following: pain watering redness
FMOC reagent 10	Adverse symptoms may include the following:

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	ampoules 1ml ea for AAA, Part Number 5061-3337	pain or irritation watering redness
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Sarcosine, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Tryptophan, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Norvaline, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Glutamine, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Asparagine, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-4-Hydroxyproline, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	Dithiodipropionic, Part Number 5062-2479	Adverse symptoms may include the following: respiratory tract irritation coughing
	td 1nmol 10/PK, Part Number 5061-3330	No specific data.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific data.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
	AA, std 25pmol 10/PK, Part Number 5061-3333	No specific data.
	AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No specific data.
	FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No specific data.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data.

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Skin contact	: Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331 AA, standard 100PMOL 10/PK, Part Number 5061-3332 AA, std 25pmol 10/PK, Part Number 5061-3333 AA, std 10pmol 10/PK, Part Number 5061-3334 OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation redness No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur No specific data. Adverse symptoms may include the following: irritation redness
Ingestion	: Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

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10/PK, Part Number 5061-3331	
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
AA, std 25pmol 10/PK, Part Number 5061-3333	Adverse symptoms may include the following: stomach pains
AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Adverse symptoms may include the following: stomach pains
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No specific data.
Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Sarcosine, Part Number 5062-2478	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Tryptophan, Part Number 5062-2478	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Norvaline, Part Number 5062-2478	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Glutamine, Part Number 5062-2478	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-Asparagine, Part Number 5062-2478	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
L-4-Hydroxyproline, Part Number 5062-2478	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Dithiodipropionic, Part Number 5062-2479	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
td 1nmol 10/PK, Part Number 5061-3330	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
AA, std 25pmol 10/PK, Part Number 5061-3333	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
AA, std 10pmol 10/PK, Part Number 5061-3334	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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Specific treatments	:	Buffer, Borate 100ml/BT, Part Number 5061-3339	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		Sarcosine, Part Number 5062-2478	No specific treatment.
		L-Tryptophan, Part Number 5062-2478	No specific treatment.
		L-Norvaline, Part Number 5062-2478	No specific treatment.
		L-Glutamine, Part Number 5062-2478	No specific treatment.
		L-Asparagine, Part Number 5062-2478	No specific treatment.
		L-4-Hydroxyproline, Part Number 5062-2478	No specific treatment.
		Dithiodipropionic, Part Number 5062-2479	No specific treatment.
		td 1nmol 10/PK, Part Number 5061-3330	No specific treatment.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific treatment.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific treatment.
		AA, std 25pmol 10/PK, Part Number 5061-3333	No specific treatment.
		AA, std 10pmol 10/PK, Part Number 5061-3334	No specific treatment.
		OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No specific treatment.
		FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No specific treatment.
		Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Sarcosine, Part Number 5062-2478	Use dry chemical powder.
		L-Tryptophan, Part Number 5062-2478	Use dry chemical powder.
		L-Norvaline, Part Number 5062-2478	Use dry chemical powder.
		L-Glutamine, Part Number 5062-2478	Use dry chemical powder.
		L-Asparagine, Part Number 5062-2478	Use dry chemical powder.
		L-4-Hydroxyproline, Part Number 5062-2478	Use dry chemical powder.
		Dithiodipropionic, Part Number 5062-2479	Use dry chemical powder.
		td 1nmol 10/PK, Part Number 5061-3330	Use an extinguishing agent suitable for the surrounding fire.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Use an extinguishing agent suitable for the surrounding fire.
		AA, standard 100PMOL 10/PK, Part Number	Use an extinguishing agent suitable for the surrounding fire.

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	5061-3332	Use an extinguishing agent suitable for the surrounding fire.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Use an extinguishing agent suitable for the surrounding fire.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Use an extinguishing agent suitable for the surrounding fire.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Use an extinguishing agent suitable for the surrounding fire.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	
Unsuitable extinguishing media	: Sarcosine, Part Number 5062-2478	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	L-Tryptophan, Part Number 5062-2478	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	L-Norvaline, Part Number 5062-2478	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	L-Glutamine, Part Number 5062-2478	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	L-Asparagine, Part Number 5062-2478	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	L-4-Hydroxyproline, Part Number 5062-2478	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	Dithiodipropionic, Part Number 5062-2479	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.
	td 1nmol 10/PK, Part Number 5061-3330	None known.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	None known.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	None known.
	AA, std 25pmol 10/PK, Part Number 5061-3333	None known.
	AA, std 10pmol 10/PK, Part Number 5061-3334	None known.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	None known.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Do not use water jet.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Sarcosine, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
	L-Tryptophan, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
	L-Norvaline, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
	L-Glutamine, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
	L-Asparagine, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.

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	L-4-Hydroxyproline, Part Number 5062-2478	May form explosible dust-air mixture if dispersed.
	Dithiodipropionic, Part Number 5062-2479	May form explosible dust-air mixture if dispersed.
	td 1nmol 10/PK, Part Number 5061-3330	In a fire or if heated, a pressure increase will occur and the container may burst.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	In a fire or if heated, a pressure increase will occur and the container may burst.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	In a fire or if heated, a pressure increase will occur and the container may burst.
	AA, std 25pmol 10/PK, Part Number 5061-3333	In a fire or if heated, a pressure increase will occur and the container may burst.
	AA, std 10pmol 10/PK, Part Number 5061-3334	In a fire or if heated, a pressure increase will occur and the container may burst.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Sarcosine, Part Number 5062-2478	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	L-Tryptophan, Part Number 5062-2478	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	L-Norvaline, Part Number 5062-2478	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	L-Glutamine, Part Number 5062-2478	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	L-Asparagine, Part Number 5062-2478	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	L-4-Hydroxyproline, Part Number 5062-2478	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
	Dithiodipropionic, Part Number 5062-2479	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides

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td 1nmol 10/PK, Part Number 5061-3330	No specific data.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific data.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
AA, std 25pmol 10/PK, Part Number 5061-3333	No specific data.
AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides Formaldehyde.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides cyanides
Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

: Sarcosine, Part Number 5062-2478	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
L-Tryptophan, Part Number 5062-2478	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
L-Norvaline, Part Number 5062-2478	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
L-Glutamine, Part Number 5062-2478	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
L-Asparagine, Part Number 5062-2478	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
L-4-Hydroxyproline, Part Number 5062-2478	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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	Dithiodipropionic, Part Number 5062-2479	Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	td 1nmol 10/PK, Part Number 5061-3330	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
	FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Sarcosine, Part Number 5062-2478	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	L-Tryptophan, Part Number 5062-2478	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	L-Norvaline, Part Number 5062-2478	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	L-Glutamine, Part Number 5062-2478	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	L-Asparagine, Part Number 5062-2478	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

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L-4-Hydroxyproline, Part Number 5062-2478	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Dithiodipropionic, Part Number 5062-2479	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
td 1nmol 10/PK, Part Number 5061-3330	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
AA, std 25pmol 10/PK, Part Number 5061-3333	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
AA, std 10pmol 10/PK, Part Number 5061-3334	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: Sarcosine, Part Number 5062-2478	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	L-Tryptophan, Part Number 5062-2478	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	L-Norvaline, Part Number 5062-2478	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	L-Glutamine, Part Number 5062-2478	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	L-Asparagine, Part Number 5062-2478	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	L-4-Hydroxyproline, Part Number 5062-2478	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	Dithiodipropionic, Part Number 5062-2479	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	td 1nmol 10/PK, Part Number 5061-3330	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

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	Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
AA, std 25pmol 10/PK, Part Number 5061-3333	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
AA, std 10pmol 10/PK, Part Number 5061-3334	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Buffer, Borate 100ml/BT, Part Number 5061-3339	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	
: Sarcosine, Part Number 5062-2478	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
L-Tryptophan, Part Number 5062-2478	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
L-Norvaline, Part Number 5062-2478	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
L-Glutamine, Part Number 5062-2478	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and

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L-Asparagine, Part Number 5062-2478	unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
L-4-Hydroxyproline, Part Number 5062-2478	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Dithiodipropionic, Part Number 5062-2479	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
td 1nmol 10/PK, Part Number 5061-3330	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
AA, standard 250PMOL 10/PK, Part Number 5061-3331	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
AA, standard 100PMOL 10/PK, Part Number 5061-3332	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
AA, std 25pmol 10/PK, Part Number 5061-3333	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also Section 8 for additional information on hygiene measures.
AA, std 10pmol 10/PK, Part Number 5061-3334	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Buffer, Borate 100ml/BT, Part Number 5061-3339	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Sarcosine, Part Number 5062-2478 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). L-Tryptophan, Part Number 5062-2478 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). L-Norvaline, Part Number 5062-2478 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). L-Glutamine, Part Number 5062-2478 Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

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L-Asparagine, Part Number 5062-2478	authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
L-4-Hydroxyproline, Part Number 5062-2478	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Dithiodipropionic, Part Number 5062-2479	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
td 1nmol 10/PK, Part Number 5061-3330	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
AA, std 25pmol 10/PK, Part Number 5061-3333	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
AA, std 10pmol 10/PK, Part Number 5061-3334	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Buffer, Borate 100ml/BT, Part Number 5061-3339	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sarcosine, Part Number 5062-2478	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
L-Tryptophan, Part Number 5062-2478	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
L-Norvaline, Part Number 5062-2478	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container.

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L-Glutamine, Part Number 5062-2478	Dispose of via a licensed waste disposal contractor. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container.
L-Asparagine, Part Number 5062-2478	Dispose of via a licensed waste disposal contractor. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container.
L-4-Hydroxyproline, Part Number 5062-2478	Dispose of via a licensed waste disposal contractor. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container.
Dithiodipropionic, Part Number 5062-2479	Dispose of via a licensed waste disposal contractor. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container.
td 1nmol 10/PK, Part Number 5061-3330	Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Stop leak if without risk. Move containers from spill area. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Stop leak if without risk. Move containers from spill area. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
AA, std 25pmol 10/PK, Part Number 5061-3333	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
AA, std 10pmol 10/PK, Part Number 5061-3334	Stop leak if without risk. Move containers from spill area. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Sarcosine, Part Number 5062-2478	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
	L-Tryptophan, Part Number 5062-2478	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
	L-Norvaline, Part Number 5062-2478	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
	L-Glutamine, Part Number 5062-2478	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
	L-Asparagine, Part Number 5062-2478	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition

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	(spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
L-4-Hydroxyproline, Part Number 5062-2478	Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.
Dithiodipropionic, Part Number 5062-2479	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
td 1nmol 10/PK, Part Number 5061-3330	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product

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AA, std 25pmol 10/PK, Part Number 5061-3333	residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage. Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
AA, std 10pmol 10/PK, Part Number 5061-3334	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene : Sarcosine, Part Number 5062-2478	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
L-Tryptophan, Part Number 5062-2478	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating,

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L-Norvaline, Part Number 5062-2478	drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
L-Glutamine, Part Number 5062-2478	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
L-Asparagine, Part Number 5062-2478	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
L-4-Hydroxyproline, Part Number 5062-2478	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Dithiodipropionic, Part Number 5062-2479	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
td 1nmol 10/PK, Part Number 5061-3330	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
AA, std 25pmol 10/PK, Part Number 5061-3333	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
AA, std 10pmol 10/PK, Part Number 5061-3334	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also

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OPA reagent, 10 mg/ml,
6 ampoules, Part
Number 5061-3335


Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

FMOC reagent 10
ampoules 1ml ea for
AAA, Part Number
5061-3337

Buffer, Borate 100ml/BT,
Part Number 5061-3339

7.2 Conditions for safe storage, including any incompatibilities

Storage

:  Sarcosine, Part Number
5062-2478

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

L-Tryptophan, Part
Number 5062-2478

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

L-Norvaline, Part
Number 5062-2478

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

L-Glutamine, Part
Number 5062-2478

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see

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L-Asparagine, Part
Number 5062-2478

Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

L-4-Hydroxyproline, Part
Number 5062-2478

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Dithiodipropionic, Part
Number 5062-2479

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

td 1nmol 10/PK, Part
Number 5061-3330

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Separate from alkalis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

AA, standard 250PMOL
10/PK, Part Number
5061-3331

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Separate from alkalis. Keep away from metals. Keep container tightly closed and

SECTION 7: Handling and storage

	sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Separate from alkalis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
AA, std 25pmol 10/PK, Part Number 5061-3333	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.
AA, std 10pmol 10/PK, Part Number 5061-3334	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Separate from alkalis. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for

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Buffer, Borate 100ml/BT,
Part Number 5061-3339

incompatible materials before handling or use.
Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 E2	200	500
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 P5c	5000	50000

7.3 Specific end use(s)

Recommendations

- : Sarcosine, Part Number 5062-2478 Industrial applications, Professional applications.
- L-Tryptophan, Part Number 5062-2478 Industrial applications, Professional applications.
- L-Norvaline, Part Number 5062-2478 Industrial applications, Professional applications.
- L-Glutamine, Part Number 5062-2478 Industrial applications, Professional applications.
- L-Asparagine, Part Number 5062-2478 Industrial applications, Professional applications.
- L-4-Hydroxyproline, Part Number 5062-2478 Industrial applications, Professional applications.
- Dithiodipropionic, Part Number 5062-2479 Industrial applications, Professional applications.
- td 1nmol 10/PK, Part Number 5061-3330 Industrial applications, Professional applications.
- AA, standard 250PMOL 10/PK, Part Number 5061-3331 Industrial applications, Professional applications.
- AA, standard 100PMOL 10/PK, Part Number 5061-3332 Industrial applications, Professional applications.
- AA, std 25pmol 10/PK, Part Number 5061-3333 Industrial applications, Professional applications.
- AA, std 10pmol 10/PK, Part Number 5061-3334 Industrial applications, Professional applications.
- OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Industrial applications, Professional applications.
- Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Industrial applications, Professional applications.
- Buffer, Borate 100ml/BT, Part Number 5061-3339 Industrial applications, Professional applications.

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Industrial sector specific solutions	: Sarcosine, Part Number 5062-2478	Not applicable.
	L-Tryptophan, Part Number 5062-2478	Not applicable.
	L-Norvaline, Part Number 5062-2478	Not applicable.
	L-Glutamine, Part Number 5062-2478	Not applicable.
	L-Asparagine, Part Number 5062-2478	Not applicable.
	L-4-Hydroxyproline, Part Number 5062-2478	Not applicable.
	Dithiodipropionic, Part Number 5062-2479	Not applicable.
	td 1nmol 10/PK, Part Number 5061-3330	Not applicable.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not applicable.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not applicable.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not applicable.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not applicable.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not applicable.
	FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not applicable.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Potassium hydroxide Methanol Potassium thiocyanate	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2 mg/m ³ 15 minutes. EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 5 mg/m ³ , (as CN) 8 hours.
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Acetonitrile	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 102 mg/m ³ 15 minutes. STEL: 60 ppm 15 minutes.

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Buffer, Borate 100ml/BT, Part Number 5061-3339 Sodium hydroxide	TWA: 40 ppm 8 hours. TWA: 68 mg/m ³ 8 hours. EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2 mg/m ³ 15 minutes.
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Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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SECTION 8: Exposure controls/personal protection

- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Sarcosine, Part Number 5062-2478	Solid. [Powder. Deliquescent solid.]
	L-Tryptophan, Part Number 5062-2478	Solid. [Crystalline powder.]
	L-Norvaline, Part Number 5062-2478	Solid. [Crystalline powder.]
	L-Glutamine, Part Number 5062-2478	Solid. [Needles.]
	L-Asparagine, Part Number 5062-2478	Solid. [Crystals.]
	L-4-Hydroxyproline, Part Number 5062-2478	Solid. [Crystals.]
	Dithiodipropionic, Part Number 5062-2479	Solid. [Powder.]
	td 1nmol 10/PK, Part Number 5061-3330	Liquid.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Liquid.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Liquid.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Liquid.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Liquid.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Liquid.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Liquid. [Clear.]
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Liquid. [Clear.]
Colour	: Sarcosine, Part Number 5062-2478	Not available.
	L-Tryptophan, Part Number 5062-2478	White to yellowish.
	L-Norvaline, Part Number 5062-2478	Not available.
	L-Glutamine, Part Number 5062-2478	Not available.
	L-Asparagine, Part Number 5062-2478	Not available.
L-4-Hydroxyproline, Part Number 5062-2478	White.	

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	Dithiodipropionic, Part Number 5062-2479	White.
	td 1nmol 10/PK, Part Number 5061-3330	Colourless.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Colourless.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Colourless.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Colourless.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Colourless.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Yellow. [Light]
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Colourless.
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Colourless.
Odour	: Sarcosine, Part Number 5062-2478	Not available.
	L-Tryptophan, Part Number 5062-2478	Odourless.
	L-Norvaline, Part Number 5062-2478	Not available.
	L-Glutamine, Part Number 5062-2478	Not available.
	L-Asparagine, Part Number 5062-2478	Not available.
	L-4-Hydroxyproline, Part Number 5062-2478	Odourless.
	Dithiodipropionic, Part Number 5062-2479	Unpleasant. [Strong]
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Slight
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Ethereal. [Slight]
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Slight

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Odour threshold	:	Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	Not available.
		L-Norvaline, Part Number 5062-2478	Not available.
		L-Glutamine, Part Number 5062-2478	Not available.
		L-Asparagine, Part Number 5062-2478	Not available.
		L-4-Hydroxyproline, Part Number 5062-2478	Not available.
		Dithiodipropionic, Part Number 5062-2479	Not available.
		td 1nmol 10/PK, Part Number 5061-3330	Not available.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
		AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
		AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
		OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
		Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	70 ppm
		Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.
pH	:	Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	5.5 to 7 [Conc. (% w/w): 1%]
		L-Norvaline, Part Number 5062-2478	Not available.
		L-Glutamine, Part Number 5062-2478	Not available.
		L-Asparagine, Part Number 5062-2478	Not available.
		L-4-Hydroxyproline, Part Number 5062-2478	Not available.
		Dithiodipropionic, Part Number 5062-2479	Not available.
		td 1nmol 10/PK, Part Number 5061-3330	1.5
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	1.5
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	1.5
		AA, std 25pmol 10/PK, Part Number 5061-3333	1.5
		AA, std 10pmol 10/PK,	1.5

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	Part Number 5061-3334	
	OPA reagent, 10 mg/ml,	10.4
	6 ampoules, Part	
	Number 5061-3335	
	Fmoc reagent 10	Not available.
	ampoules 1ml ea for	
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/	10.4
	BT, Part Number	
	5061-3339	
Melting point/freezing point	: Sarcosine, Part	208 to 212°C
	Number 5062-2478	
	L-Tryptophan, Part	278.3 to 279.3°C
	Number 5062-2478	
	L-Norvaline, Part	300°C
	Number 5062-2478	
	L-Glutamine, Part	Decomposition temperature: 185°C
	Number 5062-2478	
	L-Asparagine, Part	234 to 235°C
	Number 5062-2478	
	L-4-Hydroxyproline,	274°C
	Part Number 5062-2478	
	Dithiodipropionic, Part	155 to 158°C
	Number 5062-2479	
	td 1nmol 10/PK, Part	0°C
	Number 5061-3330	
	AA, standard 250PMOL	0°C
	10/PK, Part Number	
	5061-3331	
	AA, standard 100PMOL	0°C
	10/PK, Part Number	
	5061-3332	
	AA, std 25pmol 10/PK,	0°C
	Part Number 5061-3333	
	AA, std 10pmol 10/PK,	0°C
	Part Number 5061-3334	
	OPA reagent, 10 mg/ml,	Not available.
	6 ampoules, Part	
	Number 5061-3335	
	Fmoc reagent 10	-45°C
	ampoules 1ml ea for	
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/	Not available.
	BT, Part Number	
	5061-3339	
Initial boiling point and boiling range	: Sarcosine, Part	Not available.
	Number 5062-2478	
	L-Tryptophan, Part	Not available.
	Number 5062-2478	
	L-Norvaline, Part	Not available.
	Number 5062-2478	
	L-Glutamine, Part	Not available.
	Number 5062-2478	
	L-Asparagine, Part	Not available.
	Number 5062-2478	
	L-4-Hydroxyproline,	Not available.
	Part Number 5062-2478	
	Dithiodipropionic, Part	Not available.
	Number 5062-2479	

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	td 1nmol 10/PK, Part Number 5061-3330	100°C
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	100°C
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	100°C
	AA, std 25pmol 10/PK, Part Number 5061-3333	100°C
	AA, std 10pmol 10/PK, Part Number 5061-3334	100°C
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	81.6°C
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.
Flash point	: Sarcosine, Part Number 5062-2478	Not available.
	L-Tryptophan, Part Number 5062-2478	Not available.
	L-Norvaline, Part Number 5062-2478	Not available.
	L-Glutamine, Part Number 5062-2478	Not available.
	L-Asparagine, Part Number 5062-2478	Not available.
	L-4-Hydroxyproline, Part Number 5062-2478	Not available.
	Dithiodipropionic, Part Number 5062-2479	Not available.
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Closed cup: 2°C
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.

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Evaporation rate	:	Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	Not available.
		L-Norvaline, Part Number 5062-2478	Not available.
		L-Glutamine, Part Number 5062-2478	Not available.
		L-Asparagine, Part Number 5062-2478	Not available.
		L-4-Hydroxyproline, Part Number 5062-2478	Not available.
		Dithiodipropionic, Part Number 5062-2479	Not available.
		td 1nmol 10/PK, Part Number 5061-3330	Not available.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
		AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
		AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
		OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	<1 (butyl acetate = 1)
		Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	5.79 (butyl acetate = 1)
		Buffer, Borate 100ml/ BT, Part Number 5061-3339	<1 (butyl acetate = 1)
Flammability (solid, gas)	:	Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	Not available.
		L-Norvaline, Part Number 5062-2478	Not available.
		L-Glutamine, Part Number 5062-2478	Not available.
		L-Asparagine, Part Number 5062-2478	Not available.
		L-4-Hydroxyproline, Part Number 5062-2478	Not available.
		Dithiodipropionic, Part Number 5062-2479	Not available.
		td 1nmol 10/PK, Part Number 5061-3330	Not applicable.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not applicable.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not applicable.
		AA, std 25pmol 10/PK, Part Number	Not applicable.

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	5061-3333	AA, std 10pmol 10/PK, Part Number	Not applicable.
	5061-3334	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not applicable.
	5061-3335	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number	Not applicable.
	5061-3337	Buffer, Borate 100ml/ BT, Part Number	Not applicable.
	5061-3339		
Upper/lower flammability or explosive limits		Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	Not available.
		L-Norvaline, Part Number 5062-2478	Not available.
		L-Glutamine, Part Number 5062-2478	Not available.
		L-Asparagine, Part Number 5062-2478	Not available.
		L-4-Hydroxyproline, Part Number 5062-2478	Not available.
		Dithiodipropionic, Part Number 5062-2479	Not available.
		td 1nmol 10/PK, Part Number 5061-3330	Not available.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
		AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
		AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
		OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
		Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Lower: 4.4%
		Buffer, Borate 100ml/ BT, Part Number 5061-3339	Upper: 16% Not available.
Vapour pressure		Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	0 kPa [room temperature]
		L-Norvaline, Part Number 5062-2478	Not available.
		L-Glutamine, Part Number 5062-2478	Not available.
		L-Asparagine, Part Number 5062-2478	0.000000064 kPa [room temperature]

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	L-4-Hydroxyproline, Part Number 5062-2478	Not available.
	Dithiodipropionic, Part Number 5062-2479	Not available.
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not available.
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.
Vapour density	: Sarcosine, Part Number 5062-2478	Not available.
	L-Tryptophan, Part Number 5062-2478	Not available.
	L-Norvaline, Part Number 5062-2478	Not available.
	L-Glutamine, Part Number 5062-2478	Not available.
	L-Asparagine, Part Number 5062-2478	Not available.
	L-4-Hydroxyproline, Part Number 5062-2478	4.5 [Air = 1]
	Dithiodipropionic, Part Number 5062-2479	Not available.
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not available.
	Buffer, Borate 100ml/ BT, Part Number	Not available.

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SECTION 9: Physical and chemical properties

	5061-3339	
Relative density	: Sarcosine, Part Number 5062-2478	Not available.
	L-Tryptophan, Part Number 5062-2478	1.34
	L-Norvaline, Part Number 5062-2478	Not available.
	L-Glutamine, Part Number 5062-2478	Not available.
	L-Asparagine, Part Number 5062-2478	Not available.
	L-4-Hydroxyproline, Part Number 5062-2478	Not available.
	Dithiodipropionic, Part Number 5062-2479	Not available.
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	1.045
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	0.78
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	1.009
Solubility(ies)	: Sarcosine, Part Number 5062-2478	Soluble in the following materials: cold water and hot water.
	L-Tryptophan, Part Number 5062-2478	Soluble in the following materials: cold water and hot water.
	L-Norvaline, Part Number 5062-2478	Insoluble in the following materials: diethyl ether. Soluble in the following materials: cold water and hot water.
	L-Glutamine, Part Number 5062-2478	Easily soluble in the following materials: cold water and hot water.
	L-Asparagine, Part Number 5062-2478	Very slightly soluble in the following materials: methanol and diethyl ether.
	L-4-Hydroxyproline, Part Number 5062-2478	Soluble in the following materials: cold water and hot water.
	Dithiodipropionic, Part Number 5062-2479	Soluble in the following materials: cold water and hot water.
	td 1nmol 10/PK, Part Number 5061-3330	Easily soluble in the following materials: cold water and hot water.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Easily soluble in the following materials: cold water and hot water.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Easily soluble in the following materials: cold water and hot water.
	AA, std 25pmol 10/PK,	Easily soluble in the following materials: cold water and

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SECTION 9: Physical and chemical properties

	Part Number 5061-3333	hot water.
	AA, std 10pmol 10/PK,	Easily soluble in the following materials: cold water and
	Part Number 5061-3334	hot water.
	OPA reagent, 10 mg/ml,	Easily soluble in the following materials: cold water and
	6 ampoules, Part	hot water.
	Number 5061-3335	
	FMOc reagent 10	Soluble in the following materials: cold water and hot
	ampoules 1ml ea for	water.
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/	Soluble in the following materials: cold water and hot
	BT, Part Number	water.
	5061-3339	
Partition coefficient: n-octanol/water	: Sarcosine, Part	-2.78
	Number 5062-2478	
	L-Tryptophan, Part	-1.06
	Number 5062-2478	
	L-Norvaline, Part	-2.11
	Number 5062-2478	
	L-Glutamine, Part	-3.64
	Number 5062-2478	
	L-Asparagine, Part	-3.82
	Number 5062-2478	
	L-4-Hydroxyproline,	-3.17
	Part Number 5062-2478	
	Dithiodipropionic, Part	Not available.
	Number 5062-2479	
	td 1nmol 10/PK, Part	Not available.
	Number 5061-3330	
	AA, standard 250PMOL	Not available.
	10/PK, Part Number	
	5061-3331	
	AA, standard 100PMOL	Not available.
	10/PK, Part Number	
	5061-3332	
	AA, std 25pmol 10/PK,	Not available.
	Part Number 5061-3333	
	AA, std 10pmol 10/PK,	Not available.
	Part Number 5061-3334	
	OPA reagent, 10 mg/ml,	Not available.
	6 ampoules, Part	
	Number 5061-3335	
	FMOc reagent 10	<1
	ampoules 1ml ea for	
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/	Not available.
	BT, Part Number	
	5061-3339	
Auto-ignition temperature	: Sarcosine, Part	Not available.
	Number 5062-2478	
	L-Tryptophan, Part	>400°C
	Number 5062-2478	
	L-Norvaline, Part	Not available.
	Number 5062-2478	
	L-Glutamine, Part	Not available.
	Number 5062-2478	
	L-Asparagine, Part	Not available.
	Number 5062-2478	
	L-4-Hydroxyproline,	Not available.
	Part Number 5062-2478	

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SECTION 9: Physical and chemical properties

	Dithiodipropionic, Part Number 5062-2479	Not available.
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	524°C
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.
Decomposition temperature	: Sarcosine, Part Number 5062-2478	212°C
	L-Tryptophan, Part Number 5062-2478	289°C
	L-Norvaline, Part Number 5062-2478	Not available.
	L-Glutamine, Part Number 5062-2478	185°C
	L-Asparagine, Part Number 5062-2478	Not available.
	L-4-Hydroxyproline, Part Number 5062-2478	275°C
	Dithiodipropionic, Part Number 5062-2479	Not available.
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not available.
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.

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SECTION 9: Physical and chemical properties

Viscosity	: Sarcosine, Part Number 5062-2478	Not available.	
	L-Tryptophan, Part Number 5062-2478	Not available.	
	L-Norvaline, Part Number 5062-2478	Not available.	
	L-Glutamine, Part Number 5062-2478	Not available.	
	L-Asparagine, Part Number 5062-2478	Not available.	
	L-4-Hydroxyproline, Part Number 5062-2478	Not available.	
	Dithiodipropionic, Part Number 5062-2479	Not available.	
	td 1nmol 10/PK, Part Number 5061-3330	Not available.	
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.	
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.	
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.	
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.	
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.	
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not available.	
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.	
	Explosive properties	: Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	Not available.
L-Norvaline, Part Number 5062-2478		Not available.	
L-Glutamine, Part Number 5062-2478		Not available.	
L-Asparagine, Part Number 5062-2478		Not available.	
L-4-Hydroxyproline, Part Number 5062-2478		Not available.	
Dithiodipropionic, Part Number 5062-2479		Not available.	
td 1nmol 10/PK, Part Number 5061-3330		Not available.	
AA, standard 250PMOL 10/PK, Part Number 5061-3331		Not available.	
AA, standard 100PMOL 10/PK, Part Number 5061-3332		Not available.	
AA, std 25pmol 10/PK, Part Number 5061-3333		Not available.	
AA, std 10pmol 10/PK,		Not available.	

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SECTION 9: Physical and chemical properties

	Part Number 5061-3334	
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not available.
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.
Oxidising properties	: Sarcosine, Part Number 5062-2478	Not available.
	L-Tryptophan, Part Number 5062-2478	Not available.
	L-Norvaline, Part Number 5062-2478	Not available.
	L-Glutamine, Part Number 5062-2478	Not available.
	L-Asparagine, Part Number 5062-2478	Not available.
	L-4-Hydroxyproline, Part Number 5062-2478	Not available.
	Dithiodipropionic, Part Number 5062-2479	Not available.
	td 1nmol 10/PK, Part Number 5061-3330	Not available.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
	AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not available.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not available.
	Buffer, Borate 100ml/ BT, Part Number 5061-3339	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Sarcosine, Part Number 5062-2478	No specific test data related to reactivity available for this product or its ingredients.
	L-Tryptophan, Part Number 5062-2478	No specific test data related to reactivity available for this product or its ingredients.
	L-Norvaline, Part Number 5062-2478	No specific test data related to reactivity available for this product or its ingredients.
	L-Glutamine, Part Number 5062-2478	No specific test data related to reactivity available for this product or its ingredients.

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SECTION 10: Stability and reactivity

L-Asparagine, Part Number 5062-2478	No specific test data related to reactivity available for this product or its ingredients.
L-4-Hydroxyproline, Part Number 5062-2478	No specific test data related to reactivity available for this product or its ingredients.
Dithiodipropionic, Part Number 5062-2479	No specific test data related to reactivity available for this product or its ingredients.
td 1nmol 10/PK, Part Number 5061-3330	No specific test data related to reactivity available for this product or its ingredients.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific test data related to reactivity available for this product or its ingredients.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific test data related to reactivity available for this product or its ingredients.
AA, std 25pmol 10/PK, Part Number 5061-3333	No specific test data related to reactivity available for this product or its ingredients.
AA, std 10pmol 10/PK, Part Number 5061-3334	No specific test data related to reactivity available for this product or its ingredients.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No specific test data related to reactivity available for this product or its ingredients.
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No specific test data related to reactivity available for this product or its ingredients.
Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

: Sarcosine, Part Number 5062-2478	The product is stable.
L-Tryptophan, Part Number 5062-2478	The product is stable.
L-Norvaline, Part Number 5062-2478	The product is stable.
L-Glutamine, Part Number 5062-2478	The product is stable.
L-Asparagine, Part Number 5062-2478	The product is stable.
L-4-Hydroxyproline, Part Number 5062-2478	The product is stable.
Dithiodipropionic, Part Number 5062-2479	The product is stable.
td 1nmol 10/PK, Part Number 5061-3330	The product is stable.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	The product is stable.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	The product is stable.
AA, std 25pmol 10/PK, Part Number 5061-3333	The product is stable.
AA, std 10pmol 10/PK, Part Number 5061-3334	The product is stable.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	The product is stable.
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	The product is stable.
Buffer, Borate 100ml/BT,	The product is stable.

SECTION 10: Stability and reactivity

Part Number 5061-3339

10.3 Possibility of hazardous reactions

- : Sarcosine, Part Number 5062-2478 Under normal conditions of storage and use, hazardous reactions will not occur.
- L-Tryptophan, Part Number 5062-2478 Under normal conditions of storage and use, hazardous reactions will not occur.
- L-Norvaline, Part Number 5062-2478 Under normal conditions of storage and use, hazardous reactions will not occur.
- L-Glutamine, Part Number 5062-2478 Under normal conditions of storage and use, hazardous reactions will not occur.
- L-Asparagine, Part Number 5062-2478 Under normal conditions of storage and use, hazardous reactions will not occur.
- L-4-Hydroxyproline, Part Number 5062-2478 Under normal conditions of storage and use, hazardous reactions will not occur.
- Dithiodipropionic, Part Number 5062-2479 Under normal conditions of storage and use, hazardous reactions will not occur.
- td 1nmol 10/PK, Part Number 5061-3330 Under normal conditions of storage and use, hazardous reactions will not occur.
- AA, standard 250PMOL 10/PK, Part Number 5061-3331 Under normal conditions of storage and use, hazardous reactions will not occur.
- AA, standard 100PMOL 10/PK, Part Number 5061-3332 Under normal conditions of storage and use, hazardous reactions will not occur.
- AA, std 25pmol 10/PK, Part Number 5061-3333 Under normal conditions of storage and use, hazardous reactions will not occur.
- AA, std 10pmol 10/PK, Part Number 5061-3334 Under normal conditions of storage and use, hazardous reactions will not occur.
- OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Under normal conditions of storage and use, hazardous reactions will not occur.
- Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Under normal conditions of storage and use, hazardous reactions will not occur.
- Buffer, Borate 100ml/BT, Part Number 5061-3339 Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

- : Sarcosine, Part Number 5062-2478 Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
- L-Tryptophan, Part Number 5062-2478 Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
- L-Norvaline, Part Number 5062-2478 Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
- L-Glutamine, Part Number 5062-2478 Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment

SECTION 10: Stability and reactivity

L-Asparagine, Part Number 5062-2478	before transferring material. Prevent dust accumulation. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
L-4-Hydroxyproline, Part Number 5062-2478	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
Dithiodipropionic, Part Number 5062-2479	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.
td 1nmol 10/PK, Part Number 5061-3330	No specific data.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific data.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
AA, std 25pmol 10/PK, Part Number 5061-3333	No specific data.
AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No specific data.
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Store away from direct sunlight.
Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data.

10.5 Incompatible materials

: Sarcosine, Part Number 5062-2478	Reactive or incompatible with the following materials: oxidizing materials
L-Tryptophan, Part Number 5062-2478	Reactive or incompatible with the following materials: oxidizing materials
L-Norvaline, Part Number 5062-2478	Reactive or incompatible with the following materials: oxidizing materials
L-Glutamine, Part Number 5062-2478	Reactive or incompatible with the following materials: oxidizing materials
L-Asparagine, Part Number 5062-2478	Reactive or incompatible with the following materials: oxidizing materials
L-4-Hydroxyproline, Part Number 5062-2478	Reactive or incompatible with the following materials: oxidizing materials
Dithiodipropionic, Part Number 5062-2479	Reactive or incompatible with the following materials: oxidizing materials

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td 1nmol 10/PK, Part Number 5061-3330	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
AA, std 25pmol 10/PK, Part Number 5061-3333	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
AA, std 10pmol 10/PK, Part Number 5061-3334	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis metals
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	May react or be incompatible with oxidising materials.
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Reactive or incompatible with the following materials: oxidizing materials
Buffer, Borate 100ml/BT, Part Number 5061-3339	May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: Sarcosine, Part Number 5062-2478	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
L-Tryptophan, Part Number 5062-2478	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
L-Norvaline, Part Number 5062-2478	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
L-Glutamine, Part Number 5062-2478	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
L-Asparagine, Part Number 5062-2478	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
L-4-Hydroxyproline, Part Number 5062-2478	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Dithiodipropionic, Part Number 5062-2479	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
td 1nmol 10/PK, Part Number 5061-3330	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
AA, std 25pmol 10/PK, Part Number 5061-3333	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 10: Stability and reactivity

AA, std 10pmol 10/PK, Part Number 5061-3334	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
L-Tryptophan, Part Number 5062-2478 L-Tryptophan	LD50 Oral	Rat	>16 g/kg	-
L-Glutamine, Part Number 5062-2478 Levoglutamide	LD50 Oral	Rat	7500 mg/kg	-
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Potassium hydroxide	LD50 Oral	Rat	273 mg/kg	-
3-Mercaptopropionic acid	LC50 Inhalation Dusts and mists	Rat	1818 mg/m ³	4 hours
	LD50 Oral	Rat	96 mg/kg	-
Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-
Potassium thiocyanate	LD50 Oral	Rat	854 mg/kg	-
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Acetonitrile	LC50 Inhalation Vapour	Rat	17100 ppm	4 hours
	LD50 Oral	Rat	2460 mg/kg	-
Buffer, Borate 100ml/BT, Part Number 5061-3339 Sodium hydroxide	LD50 Dermal	Rabbit	1350 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Potassium hydroxide	Eyes - Moderate irritant	Rabbit	-	24 hours 1 milligrams	-
	Skin - Severe irritant	Guinea pig	-	24 hours 50 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 50 milligrams	-
Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-

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FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Acetonitrile	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Buffer, Borate 100ml/BT, Part Number 5061-3339 Sodium hydroxide	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Buffer, Borate 100ml/BT, Part Number 5061-3339 Sodium hydroxide	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Eyes - Severe irritant	Rabbit	-	1 Percent	-
	Eyes - Severe irritant	Rabbit	-	0.5 minutes 1 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Information on likely routes of exposure : Sarcosine, Part Number 5062-2478 Not available.

L-Tryptophan, Part Number 5062-2478 Not available.

L-Norvaline, Part Number 5062-2478 Not available.

L-Glutamine, Part Number 5062-2478 Not available.

L-Asparagine, Part Number 5062-2478 Not available.

L-4-Hydroxyproline, Part Number 5062-2478 Not available.

Dithiodipropionic, Part Number 5062-2479 Routes of entry anticipated: Oral, Dermal, Inhalation.

td 1nmol 10/PK, Part Number 5061-3330 Not available.

AA, standard 250PMOL 10/PK, Part Number 5061-3331 Not available.

AA, standard 100PMOL 10/PK, Part Number 5061-3332 Not available.

AA, std 25pmol 10/PK, Part Number 5061-3333 Not available.

AA, std 10pmol 10/PK, Part Number 5061-3334 Not available.

OPA reagent, 10 mg/ml, Routes of entry anticipated: Oral, Dermal, Inhalation.

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6 ampoules, Part Number 5061-3335
 Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337
 Buffer, Borate 100ml/BT, Part Number 5061-3339

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation

: Sarcosine, Part Number 5062-2478
 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

L-Tryptophan, Part Number 5062-2478
 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

L-Norvaline, Part Number 5062-2478
 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

L-Glutamine, Part Number 5062-2478
 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

L-Asparagine, Part Number 5062-2478
 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

L-4-Hydroxyproline, Part Number 5062-2478
 Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Dithiodipropionic, Part Number 5062-2479
 May cause respiratory irritation.

td 1nmol 10/PK, Part Number 5061-3330
 No known significant effects or critical hazards.

AA, standard 250PMOL 10/PK, Part Number 5061-3331
 No known significant effects or critical hazards.

AA, standard 100PMOL 10/PK, Part Number 5061-3332
 No known significant effects or critical hazards.

AA, std 25pmol 10/PK, Part Number 5061-3333
 May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.

AA, std 10pmol 10/PK, Part Number 5061-3334
 No known significant effects or critical hazards.

OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335
 No known significant effects or critical hazards.

Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337
 Harmful if inhaled.

Buffer, Borate 100ml/BT, Part Number 5061-3339
 No known significant effects or critical hazards.

Ingestion

: Sarcosine, Part Number 5062-2478
 No known significant effects or critical hazards.

L-Tryptophan, Part Number 5062-2478
 No known significant effects or critical hazards.

L-Norvaline, Part Number 5062-2478
 No known significant effects or critical hazards.

L-Glutamine, Part Number 5062-2478
 No known significant effects or critical hazards.

L-Asparagine, Part Number 5062-2478
 No known significant effects or critical hazards.

L-4-Hydroxyproline, Part
 No known significant effects or critical hazards.

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	Number 5062-2478	
	Dithiodipropionic, Part	No known significant effects or critical hazards.
	Number 5062-2479	
	td 1nmol 10/PK, Part	No known significant effects or critical hazards.
	Number 5061-3330	
	AA, standard 250PMOL	No known significant effects or critical hazards.
	10/PK, Part Number	
	5061-3331	
	AA, standard 100PMOL	No known significant effects or critical hazards.
	10/PK, Part Number	
	5061-3332	
	AA, std 25pmol 10/PK,	May cause burns to mouth, throat and stomach.
	Part Number 5061-3333	
	AA, std 10pmol 10/PK,	No known significant effects or critical hazards.
	Part Number 5061-3334	
	OPA reagent, 10 mg/ml,	Harmful if swallowed. Corrosive to the digestive tract.
	6 ampoules, Part	Causes burns.
	Number 5061-3335	
	FMOc reagent 10	Harmful if swallowed.
	ampoules 1ml ea for	
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/BT,	No known significant effects or critical hazards.
	Part Number 5061-3339	
Skin contact	: Sarcosine, Part Number	No known significant effects or critical hazards.
	5062-2478	
	L-Tryptophan, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Norvaline, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Glutamine, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Asparagine, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-4-Hydroxyproline, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	Dithiodipropionic, Part	Causes skin irritation.
	Number 5062-2479	
	td 1nmol 10/PK, Part	No known significant effects or critical hazards.
	Number 5061-3330	
	AA, standard 250PMOL	No known significant effects or critical hazards.
	10/PK, Part Number	
	5061-3331	
	AA, standard 100PMOL	No known significant effects or critical hazards.
	10/PK, Part Number	
	5061-3332	
	AA, std 25pmol 10/PK,	Corrosive to the skin. Causes burns.
	Part Number 5061-3333	
	AA, std 10pmol 10/PK,	No known significant effects or critical hazards.
	Part Number 5061-3334	
	OPA reagent, 10 mg/ml,	Causes severe burns. May cause an allergic skin reaction.
	6 ampoules, Part	
	Number 5061-3335	
	FMOc reagent 10	Harmful in contact with skin.
	ampoules 1ml ea for	
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/BT,	Causes skin irritation.
	Part Number 5061-3339	

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Eye contact	: Sarcosine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Tryptophan, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Norvaline, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Glutamine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-Asparagine, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	L-4-Hydroxyproline, Part Number 5062-2478	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	Dithiodipropionic, Part Number 5062-2479	Causes serious eye irritation.
	td 1nmol 10/PK, Part Number 5061-3330	No known significant effects or critical hazards.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No known significant effects or critical hazards.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No known significant effects or critical hazards.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Corrosive to eyes. Causes burns.
	AA, std 10pmol 10/PK, Part Number 5061-3334	No known significant effects or critical hazards.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Causes serious eye damage.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Causes serious eye irritation.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Sarcosine, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Tryptophan, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Norvaline, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Glutamine, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation coughing
	L-Asparagine, Part Number 5062-2478	Adverse symptoms may include the following: respiratory tract irritation

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	L-4-Hydroxyproline, Part Number 5062-2478	coughing Adverse symptoms may include the following: respiratory tract irritation coughing
	Dithiodipropionic, Part Number 5062-2479	Adverse symptoms may include the following: respiratory tract irritation coughing
	td 1nmol 10/PK, Part Number 5061-3330	No specific data.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific data.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
	AA, std 25pmol 10/PK, Part Number 5061-3333	No specific data.
	AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No specific data.
	FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No specific data.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data.
Ingestion	: Sarcosine, Part Number 5062-2478	No specific data.
	L-Tryptophan, Part Number 5062-2478	No specific data.
	L-Norvaline, Part Number 5062-2478	No specific data.
	L-Glutamine, Part Number 5062-2478	No specific data.
	L-Asparagine, Part Number 5062-2478	No specific data.
	L-4-Hydroxyproline, Part Number 5062-2478	No specific data.
	Dithiodipropionic, Part Number 5062-2479	No specific data.
	td 1nmol 10/PK, Part Number 5061-3330	No specific data.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific data.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
	AA, std 25pmol 10/PK, Part Number 5061-3333	Adverse symptoms may include the following: stomach pains
	AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Adverse symptoms may include the following: stomach pains
	FMOC reagent 10	No specific data.

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	ampoules 1ml ea for AAA, Part Number 5061-3337 Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data.
Skin contact	: Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. Adverse symptoms may include the following: irritation redness
	td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331 AA, standard 100PMOL 10/PK, Part Number 5061-3332 AA, std 25pmol 10/PK, Part Number 5061-3333	No specific data. No specific data. No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur
	AA, std 10pmol 10/PK, Part Number 5061-3334 OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No specific data. Adverse symptoms may include the following: pain or irritation redness blistering may occur
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Buffer, Borate 100ml/BT, Part Number 5061-3339	No specific data. Adverse symptoms may include the following: irritation redness
Eye contact	: Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation redness Adverse symptoms may include the following: irritation

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L-Glutamine, Part Number 5062-2478	redness Adverse symptoms may include the following: irritation redness
L-Asparagine, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
L-4-Hydroxyproline, Part Number 5062-2478	Adverse symptoms may include the following: irritation redness
Dithiodipropionic, Part Number 5062-2479	Adverse symptoms may include the following: pain or irritation watering redness
td 1nmol 10/PK, Part Number 5061-3330	No specific data.
AA, standard 250PMOL 10/PK, Part Number 5061-3331	No specific data.
AA, standard 100PMOL 10/PK, Part Number 5061-3332	No specific data.
AA, std 25pmol 10/PK, Part Number 5061-3333	Adverse symptoms may include the following: pain watering redness
AA, std 10pmol 10/PK, Part Number 5061-3334	No specific data.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Adverse symptoms may include the following: pain watering redness
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Adverse symptoms may include the following: pain or irritation watering redness
Buffer, Borate 100ml/BT, Part Number 5061-3339	Adverse symptoms may include the following: pain or irritation watering redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

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Potential delayed effects : Not available.

Potential chronic health effects

General	: Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331 AA, standard 100PMOL 10/PK, Part Number 5061-3332 AA, std 25pmol 10/PK, Part Number 5061-3333 AA, std 10pmol 10/PK, Part Number 5061-3334 OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Buffer, Borate 100ml/BT, Part Number 5061-3339	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Sarcosine, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478 L-Asparagine, Part Number 5062-2478 L-4-Hydroxyproline, Part Number 5062-2478 Dithiodipropionic, Part Number 5062-2479 td 1nmol 10/PK, Part Number 5061-3330 AA, standard 250PMOL 10/PK, Part Number 5061-3331 AA, standard 100PMOL 10/PK, Part Number 5061-3332 AA, std 25pmol 10/PK,	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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	Part Number 5061-3333	
	AA, std 10pmol 10/PK,	No known significant effects or critical hazards.
	Part Number 5061-3334	
	OPA reagent, 10 mg/ml,	No known significant effects or critical hazards.
	6 ampoules, Part	
	Number 5061-3335	
	Fmoc reagent 10	No known significant effects or critical hazards.
	ampoules 1ml ea for	
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/BT,	No known significant effects or critical hazards.
	Part Number 5061-3339	
Mutagenicity	: Sarcosine, Part Number	No known significant effects or critical hazards.
	5062-2478	
	L-Tryptophan, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Norvaline, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Glutamine, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Asparagine, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-4-Hydroxyproline, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	Dithiodipropionic, Part	No known significant effects or critical hazards.
	Number 5062-2479	
	td 1nmol 10/PK, Part	No known significant effects or critical hazards.
	Number 5061-3330	
	AA, standard 250PMOL	No known significant effects or critical hazards.
	10/PK, Part Number	
	5061-3331	
	AA, standard 100PMOL	No known significant effects or critical hazards.
	10/PK, Part Number	
	5061-3332	
	AA, std 25pmol 10/PK,	No known significant effects or critical hazards.
	Part Number 5061-3333	
	AA, std 10pmol 10/PK,	No known significant effects or critical hazards.
	Part Number 5061-3334	
	OPA reagent, 10 mg/ml,	No known significant effects or critical hazards.
	6 ampoules, Part	
	Number 5061-3335	
	Fmoc reagent 10	No known significant effects or critical hazards.
	ampoules 1ml ea for	
	AAA, Part Number	
	5061-3337	
	Buffer, Borate 100ml/BT,	No known significant effects or critical hazards.
	Part Number 5061-3339	
Teratogenicity	: Sarcosine, Part Number	No known significant effects or critical hazards.
	5062-2478	
	L-Tryptophan, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Norvaline, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Glutamine, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-Asparagine, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	L-4-Hydroxyproline, Part	No known significant effects or critical hazards.
	Number 5062-2478	
	Dithiodipropionic, Part	No known significant effects or critical hazards.
	Number 5062-2479	

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	td 1nmol 10/PK, Part Number 5061-3330	No known significant effects or critical hazards.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No known significant effects or critical hazards.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No known significant effects or critical hazards.
	AA, std 25pmol 10/PK, Part Number 5061-3333	No known significant effects or critical hazards.
	AA, std 10pmol 10/PK, Part Number 5061-3334	No known significant effects or critical hazards.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No known significant effects or critical hazards.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No known significant effects or critical hazards.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	No known significant effects or critical hazards.
Developmental effects	: Sarcosine, Part Number 5062-2478	No known significant effects or critical hazards.
	L-Tryptophan, Part Number 5062-2478	No known significant effects or critical hazards.
	L-Norvaline, Part Number 5062-2478	No known significant effects or critical hazards.
	L-Glutamine, Part Number 5062-2478	No known significant effects or critical hazards.
	L-Asparagine, Part Number 5062-2478	No known significant effects or critical hazards.
	L-4-Hydroxyproline, Part Number 5062-2478	No known significant effects or critical hazards.
	Dithiodipropionic, Part Number 5062-2479	No known significant effects or critical hazards.
	td 1nmol 10/PK, Part Number 5061-3330	No known significant effects or critical hazards.
	AA, standard 250PMOL 10/PK, Part Number 5061-3331	No known significant effects or critical hazards.
	AA, standard 100PMOL 10/PK, Part Number 5061-3332	No known significant effects or critical hazards.
	AA, std 25pmol 10/PK, Part Number 5061-3333	No known significant effects or critical hazards.
	AA, std 10pmol 10/PK, Part Number 5061-3334	No known significant effects or critical hazards.
	OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No known significant effects or critical hazards.
	Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No known significant effects or critical hazards.
	Buffer, Borate 100ml/BT, Part Number 5061-3339	No known significant effects or critical hazards.

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Fertility effects	:	Sarcosine, Part Number 5062-2478	No known significant effects or critical hazards.
		L-Tryptophan, Part Number 5062-2478	No known significant effects or critical hazards.
		L-Norvaline, Part Number 5062-2478	No known significant effects or critical hazards.
		L-Glutamine, Part Number 5062-2478	No known significant effects or critical hazards.
		L-Asparagine, Part Number 5062-2478	No known significant effects or critical hazards.
		L-4-Hydroxyproline, Part Number 5062-2478	No known significant effects or critical hazards.
		Dithiodipropionic, Part Number 5062-2479	No known significant effects or critical hazards.
		td 1nmol 10/PK, Part Number 5061-3330	No known significant effects or critical hazards.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	No known significant effects or critical hazards.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	No known significant effects or critical hazards.
		AA, std 25pmol 10/PK, Part Number 5061-3333	No known significant effects or critical hazards.
		AA, std 10pmol 10/PK, Part Number 5061-3334	No known significant effects or critical hazards.
		OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	No known significant effects or critical hazards.
		Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	No known significant effects or critical hazards.
		Buffer, Borate 100ml/BT, Part Number 5061-3339	No known significant effects or critical hazards.
Other information	:	Sarcosine, Part Number 5062-2478	Not available.
		L-Tryptophan, Part Number 5062-2478	Not available.
		L-Norvaline, Part Number 5062-2478	Not available.
		L-Glutamine, Part Number 5062-2478	Not available.
		L-Asparagine, Part Number 5062-2478	Not available.
		L-4-Hydroxyproline, Part Number 5062-2478	Not available.
		Dithiodipropionic, Part Number 5062-2479	Not available.
		td 1nmol 10/PK, Part Number 5061-3330	Not available.
		AA, standard 250PMOL 10/PK, Part Number 5061-3331	Not available.
		AA, standard 100PMOL 10/PK, Part Number 5061-3332	Not available.
		AA, std 25pmol 10/PK, Part Number 5061-3333	Not available.
		AA, std 10pmol 10/PK, Part Number 5061-3334	Not available.
		OPA reagent, 10 mg/ml,	Not available.

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6 ampoules, Part
Number 5061-3335
FMOc reagent 10
ampoules 1ml ea for
AAA, Part Number
5061-3337
Buffer, Borate 100ml/BT,
Part Number 5061-3339

Adverse symptoms may include the following: May cause headache, weakness, dizziness, shortness of breath, cyanosis, rapid heart beat, unconsciousness and possible death.
Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Acute LC50 80 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
	Acute LC50 45.5 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
Potassium hydroxide	Acute LC50 133000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
boric acid	Acute LC50 75 mg/l Marine water	Fish - Pagrus major	96 hours
3-Mercaptopropionic acid	Chronic NOEC 6000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute EC50 9 mg/l Fresh water	Daphnia	48 hours
Methanol	Acute LC50 15 mg/l Fresh water	Fish	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
Phthalaldehyde	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Potassium thiocyanate	Acute EC50 184 ppb Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 90 ppb Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 20 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 11000 µg/l Fresh water	Daphnia - Daphnia pulex	48 hours
	Acute LC50 13.3 mg/l Fresh water	Fish - Salvelinus fontinalis	96 hours
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Chronic NOEC 1100 µg/l Fresh water	Fish - Lepomis macrochirus - Juvenile (Fledgling, Hatchling, Weanling)	124 days
	Acute IC50 3685000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 3600000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1000000 µg/l Fresh water	Aquatic plants - Lemna minor	96 hours
Buffer, Borate 100ml/BT, Part Number 5061-3339	Chronic NOEC 160000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute LC50 45.5 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia	48 hours
	Acute LC50 133000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 75 mg/l Marine water	Fish - Pagrus major	96 hours
boric acid	Chronic NOEC 6000 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute LC50 125 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
Sodium hydroxide			

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12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
L-Tryptophan, Part Number 5062-2478 L-Tryptophan	OECD 301B Ready Biodegradability - CO2 Evolution Test	77 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
L-Tryptophan, Part Number 5062-2478 L-Tryptophan	-	-	Readily
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 boric acid	-	-	Not readily
Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337 Acetonitrile	-	-	Readily
Buffer, Borate 100ml/BT, Part Number 5061-3339 boric acid Sodium hydroxide	- -	- -	Not readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Sarcosine, Part Number 5062-2478 Sarcosine, Part Number 5062-2478	-2.78	-	low
Sarcosine	-2.78	-	low
L-Tryptophan, Part Number 5062-2478 L-Tryptophan, Part Number 5062-2478	-1.06	-	low
L-Tryptophan	-1.06	-	low
L-Norvaline, Part Number 5062-2478 L-Norvaline, Part Number 5062-2478	-2.11	-	low
Norvaline	-2.11	-	low
L-Glutamine, Part Number 5062-2478 L-Glutamine, Part Number 5062-2478	-3.64	-	low
Levoglutamide	-3.64	-	low
L-Asparagine, Part Number 5062-2478			

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SECTION 12: Ecological information

L-Asparagine, Part Number 5062-2478	-3.82	-	low
Asparagine	-3.82	-	low
L-4-Hydroxyproline, Part Number 5062-2478			
L-4-Hydroxyproline, Part Number 5062-2478	-3.17	-	low
L-4-Hydroxyproline	-3.17	-	low
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335			
boric acid	-1.09	-	low
3-Mercaptopropionic acid	-2.32	-	low
Methanol	-0.77	<10	low
Potassium thiocyanate	-2.52	-	low
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337			
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	<1	-	low
Acetonitrile	-0.34	3	low
Buffer, Borate 100ml/BT, Part Number 5061-3339			
boric acid	-1.09	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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SECTION 13: Disposal considerations

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

Additional information

Remarks: De minimis quantities

14.6 Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 boric acid	Toxic to reproduction	Candidate	ED/30/2010	7/1/2015
Buffer, Borate 100ml/BT, Part Number 5061-3339 boric acid	Toxic to reproduction	Candidate	ED/30/2010	7/1/2015

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Sarcosine, Part Number 5062-2478 Not applicable.
L-Tryptophan, Part Number 5062-2478 Not applicable.
L-Norvaline, Part Number 5062-2478 Not applicable.
L-Glutamine, Part Number 5062-2478 Not applicable.
L-Asparagine, Part Number 5062-2478 Not applicable.
L-4-Hydroxyproline, Part Number 5062-2478 Not applicable.
Dithiodipropionic, Part Number 5062-2479 Not applicable.
td 1nmol 10/PK, Part Number 5061-3330 Not applicable.
AA, standard 250PMOL 10/PK, Part Number 5061-3331 Not applicable.
AA, standard 100PMOL 10/PK, Part Number Not applicable.

Date of issue/Date of revision : 25/09/2018

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SECTION 15: Regulatory information

5061-3332	
AA, std 25pmol 10/PK, Part Number 5061-3333	Not applicable.
AA, std 10pmol 10/PK, Part Number 5061-3334	Not applicable.
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335	Not applicable.
FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337	Not applicable.
Buffer, Borate 100ml/BT, Part Number 5061-3339	Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Industrial emissions (integrated pollution prevention and control) - Water : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335

E2

FMOC reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337

P5c

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

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SECTION 15: Regulatory information

China	: Not determined.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: All components are listed or exempted.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Dithiodipropionic, Part Number 5062-2479 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	Expert judgment Expert judgment Expert judgment
td 1nmol 10/PK, Part Number 5061-3330 Met. Corr. 1, H290	Expert judgment
AA, standard 250PMOL 10/PK, Part Number 5061-3331 Met. Corr. 1, H290	Expert judgment
AA, standard 100PMOL 10/PK, Part Number 5061-3332 Met. Corr. 1, H290	Expert judgment
AA, std 25pmol 10/PK, Part Number 5061-3333 Met. Corr. 1, H290	Expert judgment
AA, std 10pmol 10/PK, Part Number 5061-3334 Met. Corr. 1, H290	Expert judgment
OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335 Acute Tox. 4, H302 Skin Corr. 1A, H314 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Calculation method Calculation method Calculation method Calculation method
FMOc reagent 10 ampoules 1ml ea for AAA, Part Number	

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SECTION 16: Other information

5061-3337

Flam. Liq. 2, H225
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
Eye Irrit. 2, H319

On basis of test data
Calculation method
Calculation method
Calculation method
Calculation method

Buffer, Borate 100ml/BT, Part Number 5061-3339

Skin Irrit. 2, H315
Eye Irrit. 2, H319

Calculation method
Calculation method

[Full text of abbreviated H statements](#)

Dithiodipropionic, Part Number 5062-2479

H315
H319
H335

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

td 1nmol 10/PK, Part Number 5061-3330

H290

May be corrosive to metals.

AA, standard 250PMOL 10/PK, Part Number 5061-3331

H290

May be corrosive to metals.

AA, standard 100PMOL 10/PK, Part Number 5061-3332

H290

May be corrosive to metals.

AA, std 25pmol 10/PK, Part Number 5061-3333

H290

May be corrosive to metals.

AA, std 10pmol 10/PK, Part Number 5061-3334

H290

May be corrosive to metals.

OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335

H225
H290
H301
H302
H311
H312
H314
H315
H317
H318
H331
H332
H335
H360FD
H370
H400
H410
H411
H412

Highly flammable liquid and vapour.
May be corrosive to metals.
Toxic if swallowed.
Harmful if swallowed.
Toxic in contact with skin.
Harmful in contact with skin.
Causes severe skin burns and eye damage.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
Toxic if inhaled.
Harmful if inhaled.
May cause respiratory irritation.
May damage fertility. May damage the unborn child.
Causes damage to organs.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.
Harmful to aquatic life with long lasting effects.

FMOc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337

H225
H302
H312

Highly flammable liquid and vapour.
Harmful if swallowed.
Harmful in contact with skin.

AdvanceBio Amino Acid reagent kit, Part Number 5190-9426

SECTION 16: Other information

H319
H332

Causes serious eye irritation.
Harmful if inhaled.

Buffer, Borate 100ml/BT, Part Number 5061-3339

H314
H315
H319
H360FD

Causes severe skin burns and eye damage.
Causes skin irritation.
Causes serious eye irritation.
May damage fertility. May damage the unborn child.

[Full text of classifications \[CLP/GHS\]](#)

Dithiodipropionic, Part Number 5062-2479

Eye Irrit. 2, H319
Skin Irrit. 2, H315
STOT SE 3, H335

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

td 1nmol 10/PK, Part Number 5061-3330

Met. Corr. 1, H290

CORROSIVE TO METALS - Category 1

AA, standard 250PMOL 10/PK, Part Number 5061-3331

Met. Corr. 1, H290

CORROSIVE TO METALS - Category 1

AA, standard 100PMOL 10/PK, Part Number 5061-3332

Met. Corr. 1, H290

CORROSIVE TO METALS - Category 1

AA, std 25pmol 10/PK, Part Number 5061-3333

Met. Corr. 1, H290

CORROSIVE TO METALS - Category 1

AA, std 10pmol 10/PK, Part Number 5061-3334

Met. Corr. 1, H290

CORROSIVE TO METALS - Category 1

OPA reagent, 10 mg/ml, 6 ampoules, Part Number 5061-3335

Acute Tox. 3, H301
Acute Tox. 3, H311
Acute Tox. 3, H331
Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
Aquatic Acute 1, H400
Aquatic Chronic 1, H410
Aquatic Chronic 2, H411
Aquatic Chronic 3, H412
Eye Dam. 1, H318
Flam. Liq. 2, H225
Met. Corr. 1, H290
Repr. 1B, H360FD

ACUTE TOXICITY (oral) - Category 3
ACUTE TOXICITY (dermal) - Category 3
ACUTE TOXICITY (inhalation) - Category 3
ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
FLAMMABLE LIQUIDS - Category 2
CORROSIVE TO METALS - Category 1
REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 1B

Skin Corr. 1A, H314
Skin Corr. 1B, H314
Skin Irrit. 2, H315
Skin Sens. 1, H317
Skin Sens. 1A, H317
STOT SE 1, H370

SKIN CORROSION/IRRITATION - Category 1A
SKIN CORROSION/IRRITATION - Category 1B
SKIN CORROSION/IRRITATION - Category 2
SKIN SENSITISATION - Category 1
SKIN SENSITISATION - Category 1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 1

STOT SE 3, H335

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

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SECTION 16: Other information

Fmoc reagent 10 ampoules 1ml ea for AAA, Part Number 5061-3337

Acute Tox. 4, H302
Acute Tox. 4, H312
Acute Tox. 4, H332
Eye Irrit. 2, H319
Flam. Liq. 2, H225

ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
FLAMMABLE LIQUIDS - Category 2

Buffer, Borate 100ml/BT, Part Number 5061-3339

Eye Irrit. 2, H319
Repr. 1B, H360FD

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
REPRODUCTIVE TOXICITY (Fertility and Unborn child) - Category 1B
SKIN CORROSION/IRRITATION - Category 1A
SKIN CORROSION/IRRITATION - Category 2

Skin Corr. 1A, H314
Skin Irrit. 2, H315

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Date of previous issue : 23/01/2017

Version : 2

Note * : 5062-2478 AA supplement, 1g ea N 6 x 1 g
A kit containing: Sarcosine; L-Tryptophan; L-Norvaline; L-Glutamine; L-Asparagine; L-4-Hydroxyproline

Notice to reader

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