SAFETY DATA SHEET



ProteoAnalyzer Verification Kit, Part Number 5191-6642

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

1.1 Product identifier

Product name : ProteoAnalyzer Verification Kit, Part Number 5191-6642

CAS number : Frotein Fluorescent Dye Not available.

Dye Resuspension DMF 68-12-2

Capilary Storage Solution Not applicable.

Protein Conditioning

Not applicable.

Not applicable.

Solution

2x Protein Inlet Buffer Not applicable. Protein Broad Range Gel P240 Broad Range Not applicable.

Not applicable.

Ladder

10x Protein Labeling

Buffer

Part no. (chemical kit) : 5191-6642

Part no. : Protein Verification Kit, 5008-0020

RT

Protein Fluorescent Dye
Dye Resuspension DMF
Capilary Storage Solution
Protein Conditioning
5191-6650
5191-6651
GP-440-0100
5008-0015

Solution

2x Protein Inlet Buffer 5008-0017 Protein Broad Range Gel 5008-0016 Protein Verification Kit, 5008-0019

-20C

P240 Broad Range

Ladder

ange 5191-6648

5191-6647

10x Protein Labeling

Buffer

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

Identified uses : Analytical reagent.

Protein Fluorescent Dye 50 µg Dye Resuspension DMF 1.5 ml Capilary Storage Solution 100 ml **Protein Conditioning Solution** 175 ml 2x Protein Inlet Buffer 75 ml Protein Broad Range Gel 60 ml P240 Broad Range Ladder 0.03 ml 10x Protein Labeling Buffer 1.1 ml

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000

e-mail address of person : pdl-msds author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

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

Emergency telephone number (with hours of operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Protein Fluorescent Dye

Dye Resuspension DMF

Mono-constituent substance Mono-constituent substance

Capilary Storage Solution **Protein Conditioning**

Mixture Mixture

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Mixture Mixture Mixture

Ladder

10x Protein Labeling

Mixture

Buffer

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

Dye Resuspension

DMF

H226	FLAMMABLE LIQUIDS	Category 3
H312	ACUTE TOXICITY (dermal)	Category 4
H332	ACUTE TOXICITY (inhalation)	Category 4
H319	SERIOUS EYE DAMAGE/EYÉ IRRITATION	Category 2
H360D	REPRODUCTIVE TOXICITY	Category 1B

Capilary Storage

Solution

H317 SKIN SENSITISATION Category 1

Protein Fluorescent Dye The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Dye Resuspension DMF The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

Capilary Storage Solution The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

Protein Conditioning Solution The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

2x Protein Inlet Buffer The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

The product is not classified as hazardous according to Regulation (EC) Protein Broad Range Gel

1272/2008 as amended.

P240 Broad Range Ladder The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

The product is not classified as hazardous according to Regulation (EC) 10x Protein Labeling Buffer

1272/2008 as amended.

Ingredients of unknown toxicity

: Capilary Storage Solution

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: > 60%

Protein Conditioning

Solution

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

2x Protein Inlet Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Protein Broad Range Gel Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

P240 Broad Range Ladder Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

10x Protein Labeling Buffer Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 10 - 30%

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SECTION 2: Hazards identification

Percentage of the mixture consisting of ingredient(s) of

unknown acute oral toxicity: 10 - 30%

Ingredients of unknown ecotoxicity

: 2x Protein Inlet Buffer

Contains 4.5% of components with unknown hazards to the

aquatic environment

Protein Broad Range Gel

Contains 2.2% of components with unknown hazards to the

aquatic environment

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 : Dye Resuspension DMF







Capilary Storage Solution



Signal word : Protein Fluorescent Dye

Dye Resuspension DMF
Capilary Storage Solution

Protein Conditioning Solution

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range

Ladder

10x Protein Labeling

Buffer

No signal word.

Danger Warning

No signal word.

No signal word. No signal word. No signal word.

No signal word.

Hazard statements

: Protein Fluorescent Dye

Dye Resuspension DMF

No known significant effects or critical hazards.

H226 - Flammable liquid and vapour.

H312 + H332 - Harmful in contact with skin or if inhaled.

H319 - Causes serious eye irritation. H360D - May damage the unborn child. H317 - May cause an allergic skin reaction. No known significant effects or critical hazards.

Capilary Storage Solution Protein Conditioning

Solution

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range

Ladder

10x Protein Labeling

Buffer

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.

Precautionary statements

Prevention

Protein Fluorescent Dye

Dye Resuspension DMF

F

Not applicable.

P201 - Obtain special instructions before use.

P280 - Wear protective gloves, protective clothing and eye

or face protection.

P210 - Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P261 - Avoid breathing vapour.

Capilary Storage Solution

P280 - Wear protective gloves. P261 - Avoid breathing vapour.

Protein Conditioning

Solution

Not applicable.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

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SECTION 2: Hazards identification

Ladder

10x Protein Labeling

Buffer

Not applicable.

Response

: Protein Fluorescent Dye

Not applicable. Dye Resuspension DMF P308 + P313 - IF exposed or concerned: Get medical advice

or attention.

Capilary Storage Solution

P362 + P364 - Take off contaminated clothing and wash it

before reuse.

P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical

advice or attention.

Protein Conditioning

Solution

Not applicable.

2x Protein Inlet Buffer Not applicable. Not applicable. Protein Broad Range Gel

Ladder

Not applicable. P240 Broad Range

10x Protein Labeling

Not applicable.

Buffer

: Protein Fluorescent Dye

Dye Resuspension DMF Capilary Storage Solution Protein Conditioning

Not applicable. Not applicable. Not applicable.

Not applicable.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not applicable. Not applicable. Not applicable.

10x Protein Labeling

Buffer

Not applicable.

Disposal

Storage

: Protein Fluorescent Dye

Not applicable.

Dye Resuspension DMF P501 - Dispose of contents and container in accordance

> with all local, regional, national and international regulations. P501 - Dispose of contents and container in accordance

Capilary Storage Solution

with all local, regional, national and international regulations. Not applicable.

Protein Conditioning

Solution

Not applicable.

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range

Not applicable.

Ladder

10x Protein Labeling

Buffer

Not applicable.

Not applicable.

Hazardous ingredients Supplemental label elements

: Capilary Storage Solution

2-methylisothiazol-3(2H)-one

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution

Not applicable. Not applicable. Not applicable. Not applicable.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Safety data sheet available on request. Safety data sheet available on request. Not applicable.

Ladder

10x Protein Labeling Buffer

Safety data sheet available on request.

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SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning

Not applicable. Not applicable.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

Not applicable. Not applicable. Not applicable.

Not applicable.

Restricted to professional users.

10x Protein Labeling

Not applicable.

Not applicable.

Buffer

Special packaging requirements

Tactile warning of danger

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution

Not applicable. Not applicable. Not applicable.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not applicable. Not applicable. Not applicable.

10x Protein Labeling

Not applicable.

Buffer

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

PBT	Р	В	Т	vPvB	vP	vB
Protein Fluorescent Dye N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dye Resuspension DMF No	N/A	No	Yes	No	N/A	No

Capilary Storage Solution This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Protein Conditioning

Solution

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

2x Protein Inlet Buffer

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Protein Broad Range Gel

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

P240 Broad Range

Ladder

This mixture does not contain any substances that are

May form combustible dust concentrations in air.

assessed to be a PBT or a vPvB.

10x Protein Labeling Buffer

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in

classification

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution

None known. None known.

Protein Conditioning Solution

None known.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

None known. None known. None known.

Ladder

None known.

10x Protein Labeling

Buffer

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SECTION 3: Composition/information on ingredients

3.1 Substances : Frotein Fluorescent Dye Mono-constituent substance

Dye Resuspension DMF
Capilary Storage Solution
Protein Conditioning Solution
2x Protein Inlet Buffer
Protein Broad Range Gel
P240 Broad Range Ladder
10x Protein Labeling Buffer

Mono-constituent substance
Mixture

Mixture

Mixture

Mixture

Mixture

Mixture

	TOX Protein Labeling				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Protein Fluorescent Dye					
Proprietary	-	100	Not classified.	-	[1]
Dye Resuspension DMF					
N,N-dimethylformamide	EC: 200-679-5 CAS: 68-12-2	100	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 Repr. 1B, H360D	ATE [Dermal] = 1500 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
Capilary Storage Solution					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥50 - ≤75	Not classified.	-	[2]
2-methylisothiazol-3(2H)- one	EC: 220-239-6 CAS: 2682-20-4 Index: 613-326-00-9	<0.1	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071	ATE [Oral] = 285.5 mg/kg ATE [Dermal] = 242 mg/kg ATE [Inhalation (dusts and mists)] = 0.11 mg/l Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 10 M [Chronic] = 1	[1]
2x Protein Inlet Buffer					
trometamol	EC: 201-064-4 CAS: 77-86-1	≤5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
Protein Broad Range Gel					
trometamol	EC: 201-064-4 CAS: 77-86-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
P240 Broad Range Ladder					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
10x Protein Labeling					
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SECTION 3: Composition/information on ingredients

Buffer					
sodium dodecyl sulphate	EC: 205-788-1 CAS: 151-21-3	≤5	Flam. Sol. 2, H228 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	ATE [Oral] = 1288 mg/kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l Eye Dam. 1, H318: C ≥ 20% Eye Irrit. 2, H319: 10% ≤ C < 20% M [Acute] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

^{*} Non-hazardous ingredients

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer [1] Constituent

[1] Constituent

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[1] Substance classified with a health or environmental hazard

[1] Substance classified with a health or environmental hazard

[1] Substance with a workplace exposure limit

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : Pro

: Protein Fluorescent Dye

Dye Resuspension DMF

Capilary Storage Solution

Protein Conditioning Solution

2x Protein Inlet Buffer

Protein Broad Range Gel

P240 Broad Range Ladder

10x Protein Labeling Buffer 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. 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.

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.

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. 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. 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. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove

lifting the upper and lower eyelids. Check for and remove 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.

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SECTION 4: First aid measures

Inhalation

: Protein Fluorescent Dye

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

symptoms occur.

Dye Resuspension DMF

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-tomouth 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. 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.

Capilary Storage Solution

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-tomouth 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. 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.

Protein Conditioning Solution

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

2x Protein Inlet Buffer

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.

Protein Broad Range Gel

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.

P240 Broad Range Ladder

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

10x Protein Labeling

Buffer

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.

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SECTION 4: First aid measures

Skin contact

: Protein Fluorescent Dye

Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Dye Resuspension DMF

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 necessary, call a poison center or physician. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Capilary Storage Solution

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. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Protein Conditioning

Solution

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

2x Protein Inlet Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Protein Broad Range Gel

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

P240 Broad Range

Ladder

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

10x Protein Labeling

Buffer

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion

: Protein Fluorescent Dye

Wash out mouth with water. 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.

Dye Resuspension DMF

Wash out mouth with water. Remove dentures if any. 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. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Capilary Storage Solution

Loosen tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. Remove dentures if any. 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. Wash out mouth with water. 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.

Protein Conditioning Solution

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SECTION 4: First aid measures

2x Protein Inlet Buffer Wash out mouth with water. 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.

Protein Broad Range Gel Wash out mouth with water. 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.

P240 Broad Range

Ladder

Wash out mouth with water. 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.

10x Protein Labeling

Buffer

Wash out mouth with water. 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.

Protection of first-aiders

: Protein Fluorescent Dye

No action shall be taken involving any personal risk or

No action shall be taken involving any personal risk or

without suitable training.

Dye Resuspension DMF

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.

No action shall be taken involving any personal risk or Capilary Storage Solution

without suitable training. 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.

Protein Conditioning

Solution

No action shall be taken involving any personal risk or

without suitable training.

2x Protein Inlet Buffer No action shall be taken involving any personal risk or

without suitable training.

Protein Broad Range Gel No action shall be taken involving any personal risk or

without suitable training.

P240 Broad Range

Ladder

No action shall be taken involving any personal risk or

without suitable training.

10x Protein Labeling

Buffer

No action shall be taken involving any personal risk or

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

: Protein Fluorescent Dye **Eye contact**

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the

eyes.

Dye Resuspension DMF Capilary Storage Solution

Protein Conditioning

Solution

Causes serious eye irritation.

No known significant effects or critical hazards. No known significant effects or critical hazards.

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range

Ladder

10x Protein Labeling

Buffer

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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SECTION 4: First aid measures

Inhalation

: Protein Fluorescent Dye Exposure to airborne concentrations above statutory or

recommended exposure limits may cause irritation of the

nose, throat and lungs.

Dye Resuspension DMF

Capilary Storage Solution **Protein Conditioning**

Solution

Harmful if inhaled.

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

No known significant effects or critical hazards. No known significant effects or critical hazards.

10x Protein Labeling

Buffer

No known significant effects or critical hazards.

Skin contact

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning

No known significant effects or critical hazards.

Harmful in contact with skin. May cause an allergic skin reaction.

No known significant effects or critical hazards. Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

10x Protein Labeling

Buffer

No known significant effects or critical hazards.

Ingestion

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution

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.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

10x Protein Labeling

Buffer

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact

: Protein Fluorescent Dye Adverse symptoms may include the following:

> irritation redness

Dye Resuspension DMF Adverse symptoms may include the following:

> pain or irritation watering redness

Capilary Storage Solution

Protein Conditioning

No specific data. No specific data.

Solution

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. P240 Broad Range No specific data.

Ladder

10x Protein Labeling

Buffer

No specific data.

Inhalation

: Protein Fluorescent Dye Adverse symptoms may include the following:

respiratory tract irritation

coughing

Adverse symptoms may include the following: Dye Resuspension DMF

> reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Capilary Storage Solution **Protein Conditioning**

Solution

No specific data.

2x Protein Inlet Buffer No specific data.

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SECTION 4: First aid measures

Protein Broad Range Gel

P240 Broad Range

No specific data.

Ladder

10x Protein Labeling

Buffer

No specific data.

No specific data.

Skin contact

: Protein Fluorescent Dye

No specific data.

Dye Resuspension DMF

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution Adverse symptoms may include the following:

> irritation redness

Protein Conditioning

Solution

No specific data.

2x Protein Inlet Buffer No specific data. No specific data. Protein Broad Range Gel P240 Broad Range No specific data.

Ladder

10x Protein Labeling

No specific data.

Buffer

: Protein Fluorescent Dye

No specific data.

Dye Resuspension DMF Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution **Protein Conditioning**

Solution

No specific data. No specific data.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

No specific data. No specific data. No specific data.

10x Protein Labeling

Buffer

No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Ingestion

: Protein Fluorescent Dye

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

In case of inhalation of decomposition products in a fire, Dye Resuspension DMF symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

In case of inhalation of decomposition products in a fire, Capilary Storage Solution

symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Protein Conditioning

Solution

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. 2x Protein Inlet Buffer 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.

Protein Broad Range Gel 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.

P240 Broad Range

Ladder

10x Protein Labeling

Buffer

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Ireland

ProteoAnalyzer Verification Kit, Part Number 5191-6642

SECTION 4: First aid measures

Specific treatments

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution **Protein Conditioning**

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

10x Protein Labeling Buffer

No specific treatment. No specific treatment. No specific treatment.

No specific treatment.

No specific treatment.

No specific treatment. No specific treatment.

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Unsuitable extinguishing

media

: Protein Fluorescent Dye

Dye Resuspension DMF

Protein Conditioning

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

10x Protein Labeling

Buffer

: Protein Fluorescent Dye

Dye Resuspension DMF

Capilary Storage Solution Protein Conditioning

Solution 2x Protein Inlet Buffer

Protein Broad Range Gel P240 Broad Range

Ladder

Buffer

10x Protein Labeling

Use dry chemical powder.

Use dry chemical, CO₂, water spray (fog) or foam.

Capilary Storage Solution Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

> Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

> Use an extinguishing agent suitable for the surrounding fire.

Avoid high pressure media which could cause the formation

of a potentially explosible dust-air mixture. Do not use water jet.

None known. None known.

None known.

None known. None known.

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Protein Fluorescent Dye Dye Resuspension DMF May form explosible dust-air mixture if dispersed.

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. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable

distance to a source of ignition and flash back.

Capilary Storage Solution In a fire or if heated, a pressure increase will occur and the

container may burst.

Protein Conditioning

Solution

2x Protein Inlet Buffer

In a fire or if heated, a pressure increase will occur and the

container may burst.

In a fire or if heated, a pressure increase will occur and the

container may burst.

In a fire or if heated, a pressure increase will occur and the Protein Broad Range Gel

container may burst.

P240 Broad Range

Ladder

10x Protein Labeling

Buffer

In a fire or if heated, a pressure increase will occur and the

container may burst.

In a fire or if heated, a pressure increase will occur and the

container may burst.

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SECTION 5: Firefighting measures

Hazardous combustion products

: Protein Fluorescent Dye Dye Resuspension DMF

No specific data.

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Capilary Storage Solution

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

Protein Conditioning

Solution

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

2x Protein Inlet Buffer Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

Protein Broad Range Gel Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

P240 Broad Range

Ladder

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

10x Protein Labeling

Buffer

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides

5.3 Advice for firefighters Special precautions for fire-fighters

: Protein Fluorescent Dye

Dye Resuspension DMF

Capilary Storage Solution

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. 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

Protein Conditioning

Solution

taken involving any personal risk or without suitable training. 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. Promptly isolate the scene by removing all persons from the

2x Protein Inlet Buffer 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. Protein Broad Range Gel Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

P240 Broad Range

Ladder

taken involving any personal risk or without suitable training. 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.

10x Protein Labeling Buffer

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

: Protein Fluorescent Dye

taken involving any personal risk or without suitable training. 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.

Dye Resuspension DMF

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.

Capilary Storage Solution

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.

Protein Conditioning

Solution

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.

2x Protein Inlet Buffer

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.

Protein Broad Range Gel

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.

P240 Broad Range

Ladder

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.

10x Protein Labeling

Buffer

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

: Protein Fluorescent Dye

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.

Dye Resuspension DMF

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

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SECTION 6: Accidental release measures

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. Capilary Storage Solution 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. No action shall be taken involving any personal risk or Solution without suitable training. Evacuate surrounding areas.

Protein Conditioning

Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

2x Protein Inlet Buffer 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. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk or Protein Broad Range Gel

> without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering.

Do not touch or walk through spilt material. Put on

appropriate personal protective equipment.

P240 Broad Range

Ladder

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. Put on

appropriate personal protective equipment.

10x Protein Labeling

Buffer

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. Put on

appropriate personal protective equipment.

For emergency responders

: Protein Fluorescent Dye

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 nonemergency personnel".

Dye Resuspension DMF

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 nonemergency personnel".

Capilary Storage Solution

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".

Protein Conditioning

Solution

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".

2x Protein Inlet Buffer

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".

Protein Broad Range Gel

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".

P240 Broad Range

Ladder

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-

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emergency personnel".

10x Protein Labeling

Buffer

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

: Protein Fluorescent Dye

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).

Dye Resuspension DMF

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).

Capilary Storage Solution

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).

Protein Conditioning

Solution

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).

2x Protein Inlet Buffer

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).

Protein Broad Range Gel

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).

P240 Broad Range

Ladder

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).

10x Protein Labeling

Buffer

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

: Protein Fluorescent Dye Methods for cleaning up

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.

Dye Resuspension DMF

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.

Capilary Storage Solution

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.

Protein Conditioning

Solution

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.

Stop leak if without risk. Move containers from spill area. 2x Protein Inlet Buffer

Dilute with water and mop up if water-soluble. Alternatively,

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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.

Protein Broad Range Gel 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.

P240 Broad Range

Ladder

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.

10x Protein Labeling

Buffer

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.

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

: Protein Fluorescent Dye

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.

Dye Resuspension DMF

Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. 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.

Capilary Storage Solution

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 ingest. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when

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not in use. Empty containers retain product residue and can

be hazardous. Do not reuse container.

Protein Conditioning Put on appropriate personal protective equipment (see Solution

Section 8).

2x Protein Inlet Buffer Put on appropriate personal protective equipment (see

Section 8).

Protein Broad Range Gel Put on appropriate personal protective equipment (see

Section 8).

P240 Broad Range

Ladder

Put on appropriate personal protective equipment (see

Section 8).

10x Protein Labeling Put on appropriate personal protective equipment (see Buffer

Section 8).

Advice on general occupational hygiene : Protein Fluorescent Dye

Dye Resuspension DMF

Capilary Storage Solution

Protein Conditioning Solution

2x Protein Inlet Buffer

Protein Broad Range Gel

P240 Broad Range Ladder

10x Protein Labeling

Buffer

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. 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. 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.

7.2 Conditions for safe storage, including any incompatibilities

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SECTION 7: Handling and storage

Storage

: Protein Fluorescent Dye

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 wellventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising 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.

Dye Resuspension DMF

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 wellventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising 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.

Capilary Storage Solution

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.

Protein Conditioning Solution

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.

2x Protein Inlet Buffer

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.

Protein Broad Range Gel

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.

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SECTION 7: Handling and storage

P240 Broad Range Ladder 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.

10x Protein Labeling Buffer 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.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold	
Dye Resuspension DMF P5c	5000 tonne	50000 tonne	

7.3 Specific end use(s)

Recommendations

 Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

10x Protein Labeling
Buffer

Industrial applications, Professional applications.

Industrial sector specific solutions

Protein Fluorescent Dye
Dye Resuspension DMF
Capilary Storage Solution
Protein Conditioning

Not available. Not available. Not available. Not available.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Not available. Not available. Not available.

Ladder 10x Protein Labeling

Not available.

Buffer

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
Dye Resuspension DMF	
N,N-Dimethylformamide	NAOSH (Ireland, 5/2021). Absorbed through skin. Notes: EU derived Occupational Exposure Limit Values OELV-8hr: 5 ppm 8 hours. OELV-8hr: 15 mg/m³ 8 hours. OELV-15min: 10 ppm 15 minutes. OELV-15min: 30 mg/m³ 15 minutes.
Capilary Storage Solution Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m³ 8 hours. Form: mist
P240 Broad Range Ladder	
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV-8hr: 10 mg/m³ 8 hours. Form: mist

Biological exposure indices

Product/ingredient name	Exposure indices			
Dye Resuspension DMF				
N,N-Dimethylformamide	NAOSH (Ireland, 1/2011) BMGV: 15 mg/l, N-methylformamide [in urine]. Sampling time: post shift.			

Recommended monitoring procedures

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

Product/ingredient name	Type	Exposure	Value	Population	Effects
Dye Resuspension DMF N,N-Dimethylformamide	DNEL	Long term Inhalation	6 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.1 mg/kg bw/day	Workers	Systemic
Capilary Storage Solution					
2-methylisothiazol-3(2H)-one	DNEL	Long term Inhalation	0.021 mg/ m ³	General population	Local
	DNEL	Long term Inhalation	0.021 mg/ m ³	Workers	Local
	DNEL	Long term Oral	0.027 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	0.043 mg/ m ³	General population	Local
	DNEL	Short term Inhalation	0.043 mg/ m³	Workers	Local
	DNEL	Short term Oral	0.053 mg/ kg bw/day	General population	Systemic
2x Protein Inlet Buffer					
Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic

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SECTION 8: Exposure controls/personal protection

	DNEL	Long term	29 mg/m³	General	Systemic
	DNE	Inhalation	00 0//	population	0
	DNEL	Long term Dermal	83.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic
Protein Broad Range Gel					
Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 mg/m³	General population	Systemic
	DNEL	Long term Dermal	83.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic
10x Protein Labeling Buffer					
Sodium dodecyl sulphate	DNEL	Long term Oral	24 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	85 mg/m³	General population	Systemic
	DNEL	Long term Inhalation	285 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2440 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	4060 mg/ kg bw/day	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

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. 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.

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SECTION 8: Exposure controls/personal protection

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.

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Odour threshold

Physical state : Protein Fluorescent Dye Solid. [Lyophilized Powder.]

Dye Resuspension DMF Liquid.
Capilary Storage Solution Liquid.
Protein Conditioning Liquid.
Solution

2x Protein Inlet Buffer Liquid. Protein Broad Range Gel Liquid. P240 Broad Range Liquid.

Ladder

10x Protein Labeling Liquid.

Buffer

Colour : Protein Fluorescent Dye Yellow./ Brown.

Dye Resuspension DMF Colourless to light yellow.

Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution 2x Protein

2x Protein Inlet BufferNot available.Protein Broad Range GelNot available.P240 Broad RangeNot available.

Ladder

10x Protein Labeling Not available.

Buffer

Odour : Protein Fluorescent Dye Not available.

Dye Resuspension DMF Faint odour. [Slight]
Capilary Storage Solution
Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Not available.

Buffer

Protein Fluorescent Dye
 Dye Resuspension DMF
 Capilary Storage Solution
 Protein Conditioning
 Not available.
 Not available.
 Not available.

Solution

2x Protein Inlet Buffer Not available.
Protein Broad Range Gel Not available.
P240 Broad Range Not available.

P240 Broad Range Ladder

10x Protein Labeling Not available.

Buffer

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SECTION 9: Physical and chemical properties

Melting point/freezing point

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning

-61°C Not available. Not available.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not available. Not available. Not available.

Not available.

10x Protein Labeling

Buffer

Not available.

Not available.

153°C

Initial boiling point and boiling range

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Not available. **Protein Conditioning** Solution

Not available.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not available. Not available. Not available.

10x Protein Labeling

Not available.

Buffer

Flammability

: Protein Fluorescent Dye Not available. Dye Resuspension DMF Not applicable. Capilary Storage Solution Not applicable. Protein Conditioning Not applicable. Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

Ladder

10x Protein Labeling

Buffer

Not applicable.

Upper/lower flammability or explosive limits

Protein Fluorescent Dye Dye Resuspension DMF Not applicable. Lower: 2.2% Upper: 15.2%

Capilary Storage Solution Not available. Protein Conditioning

Not available.

Solution

2x Protein Inlet Buffer Protein Broad Range Gel Not available. P240 Broad Range

Not available. Not available.

Ladder

10x Protein Labeling

Not available.

Buffer

Flash point

Protein Fluorescent Dye Not applicable.

Dye Resuspension DMF Closed cup: 57.5°C [DIN 51755]

Capilary Storage Solution **Protein Conditioning**

Not available. Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel P240 Broad Range

Not available. Not available.

Ladder

10x Protein Labeling

Not available.

Buffer

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SECTION 9: Physical and chemical properties

	Closed cup			Open cup
Ingredient name	°C	Method	°C	Method
Capilary Storage Solution				
glycerol	-	-	177	-
P240 Broad Range Ladder				
glycerol	-	-	177	-
10x Protein Labeling Buffer				
sodium dodecyl sulphate	170	-	-	-

Auto-ignition temperature

: Protein Fluorescent Dye Not applicable. Dye Resuspension DMF 445°C

Ingredient name	°C	Method
Capilary Storage Solution		
glycerol	370	-
P240 Broad Range Ladder		
glycerol	370	-
10x Protein Labeling Buffer		
sodium dodecyl sulphate	310.5	VDI 2263

Decomposition temperature

: Protein Fluorescent Dye Not available. Dye Resuspension DMF >350°C Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder

10x Protein Labeling Buffer

Not available.

pН

Viscosity

Protein Fluorescent Dye Not available.

Dye Resuspension DMF 6.7 Capilary Storage Solution 8.3

Protein Conditioning Solution

9.68 to 9.94

2x Protein Inlet Buffer 8.18 to 8.31 Protein Broad Range Gel 8 to 8.5 P240 Broad Range 8.4 to 8.6

Ladder

10x Protein Labeling 8.87

Buffer

: Protein Fluorescent Dye Not applicable.

Dye Resuspension DMF Dynamic: 0.802 mPa·s

Capilary Storage Solution Not available. **Protein Conditioning** Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

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SECTION 9: Physical and chemical properties

Ladder

10x Protein Labeling Not available.

Buffer

Solubility(ies)

Media Result Protein Fluorescent Dye Soluble Dye Resuspension DMF Soluble water Capilary Storage Solution Soluble water Protein Conditioning Solution Soluble water 2x Protein Inlet Buffer Soluble water Protein Broad Range Gel Soluble P240 Broad Range Ladder Soluble 10x Protein Labeling Buffer Soluble water

Partition coefficient: noctanol/water

: Protein Fluorescent Dye Not applicable.

Dye Resuspension DMF -1.01

Capilary Storage Solution Not applicable. Protein Conditioning Not applicable.

Solution

2x Protein Inlet Buffer Not applicable. Not applicable. Protein Broad Range Gel Not applicable. P240 Broad Range

Ladder

10x Protein Labeling

Not applicable.

Buffer

Vapour pressure : Dye Resuspension DMF 0.49 kPa (3.7 mm Hg)

	Vapour Pressu		e at 20°C	Vap	Vapour pressure at 5		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
Capilary Storage Solution							
water	17.5	2.3	-	92.258	12.3	-	
glycerol	0.000075	0.00001	-	0.0025	0.00033	-	
Protein Conditioning Solution							
water	17.5	2.3	-	92.258	12.3	-	
2x Protein Inlet Buffer							
water	17.5	2.3	-	92.258	12.3	-	
trometamol	<0.00075006	<0.0001	-	-	-	-	
Protein Broad Range Gel							

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SECTION 9: Physical and chemical properties

water	17.5	2.3	-	92.258	12.3	-
trometamol	<0.00075006	<0.0001	-	-	-	-
P240 Broad Range Ladder						
water	17.5	2.3	-	92.258	12.3	-
glycerol	0.000075	0.00001	-	0.0025	0.00033	-
10x Protein Labeling Buffer						
water	17.5	2.3	-	92.258	12.3	-
sodium dodecyl sulphate	≤0.0013501	≤0.00018	-	-	-	-

Evaporation rate

: Protein Fluorescent Dye Not available.

Dye Resuspension DMF 0.2 (butyl acetate = 1)

Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. Not available. P240 Broad Range

Ladder

Not available. 10x Protein Labeling

Buffer

Relative density

: Protein Fluorescent Dye Not available. Dye Resuspension DMF 0.95

Capilary Storage Solution Not available. Protein Conditioning Not available.

Solution

2x Protein Inlet Buffer Not available. Protein Broad Range Gel Not available. P240 Broad Range Not available.

Ladder 10x Protein Labeling Not available.

Buffer

Vapour density

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution

Not applicable. 2.5 [Air = 1]Not available. Not available.

2x Protein Inlet Buffer Protein Broad Range Gel Not available. P240 Broad Range

Not available. Not available.

Ladder 10x Protein Labeling

Not available.

Buffer

Explosive properties

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Not available. Protein Conditioning Solution

Not available. Not available. Not available.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder

Not available. Not available. Not available.

10x Protein Labeling Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Not available. Protein Conditioning Solution

Not available. Not available. Not available.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not available. Not available. Not available.

Ladder

10x Protein Labeling

Not available.

Buffer

Particle characteristics Median particle size

Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution **Protein Conditioning** Solution

Not available. Not applicable. Not applicable. Not applicable.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Not applicable. Not applicable. Not applicable.

Ladder

10x Protein Labeling

Buffer

Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

: Protein Fluorescent Dye

No specific test data related to reactivity available for this

product or its ingredients.

Dye Resuspension DMF

No specific test data related to reactivity available for this

product or its ingredients.

Capilary Storage Solution

No specific test data related to reactivity available for this

product or its ingredients.

Protein Conditioning

Solution

No specific test data related to reactivity available for this

product or its ingredients.

2x Protein Inlet Buffer

No specific test data related to reactivity available for this

product or its ingredients.

Protein Broad Range Gel

No specific test data related to reactivity available for this

product or its ingredients.

P240 Broad Range

Ladder

No specific test data related to reactivity available for this

product or its ingredients.

10x Protein Labeling

Buffer

No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability

: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution The product is stable. Protein Conditioning Solution

The product is stable. The product is stable. The product is stable.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

The product is stable. The product is stable. The product is stable.

Ladder

The product is stable.

10x Protein Labeling Buffer

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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions : Protein Fluorescent Dye Under normal conditions of storage and use, hazardous

reactions will not occur.

Dye Resuspension DMF Under normal conditions of storage and use, hazardous

reactions will not occur.

Capilary Storage Solution Under normal conditions of storage and use, hazardous

reactions will not occur.

Protein Conditioning Under normal conditions of storage and use, hazardous

Solution

reactions will not occur.

2x Protein Inlet Buffer Under normal conditions of storage and use, hazardous

reactions will not occur.

Protein Broad Range Gel Under normal conditions of storage and use, hazardous

reactions will not occur.

P240 Broad Range

Under normal conditions of storage and use, hazardous

reactions will not occur.

Ladder

Under normal conditions of storage and use, hazardous

10x Protein Labeling

reactions will not occur.

Buffer

10.4 Conditions to avoid

: Protein Fluorescent Dye 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.

Dye Resuspension DMF

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. Do not allow vapour

to accumulate in low or confined areas.

Capilary Storage Solution No specific data. Protein Conditioning

Solution

No specific data.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

No specific data. No specific data. No specific data.

Ladder 10x Protein Labeling

Buffer

No specific data.

10.5 Incompatible materials

Reactive or incompatible with the following materials: : Protein Fluorescent Dye

oxidising materials

Dye Resuspension DMF Reactive or incompatible with the following materials:

oxidising materials

Capilary Storage Solution May react or be incompatible with oxidising materials.

Protein Conditioning Solution

May react or be incompatible with oxidising materials.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Ladder 10x Protein Labeling

Buffer

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : Protein Fluorescent Dye Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Dye Resuspension DMF Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Capilary Storage Solution Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Protein Conditioning

Solution

2x Protein Inlet Buffer

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous

decomposition products should not be produced. Protein Broad Range Gel Under normal conditions of storage and use, hazardous

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SECTION 10: Stability and reactivity

P240 Broad Range Ladder 10x Protein Labeling Buffer decomposition products should not be produced.
Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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
Dye Resuspension DMF N,N-Dimethylformamide	LC50 Inhalation Vapour LC50 Inhalation Vapour LD50 Oral	Rat Rat Rat	3421 ppm 1948 ppm 4000 mg/kg	1 hours 4 hours -
Capilary Storage Solution 2-methylisothiazol-3(2H)-one	LC50 Inhalation Dusts and mists	,	0.11 mg/l	4 hours
	LD50 Dermal	Female Rat - Male, Female	242 mg/kg	-
	LD50 Oral	Rat - Male, Female	285.5 mg/kg	-
2x Protein Inlet Buffer Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
Protein Broad Range Gel Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
10x Protein Labeling Buffer Sodium dodecyl sulphate	LD50 Oral	Rat	1288 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Dye Resuspension DMF N,N-Dimethylformamide	4000	1500	N/A	11	N/A
Capilary Storage Solution 2-methylisothiazol-3(2H)-one	285.5	242	N/A	N/A	0.11
10x Protein Labeling Buffer 10x Protein Labeling Buffer Sodium dodecyl sulphate		N/A N/A	N/A N/A	N/A N/A	37.0 1.5

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Dye Resuspension DMF N,N-Dimethylformamide	Eyes - Severe irritant	Rabbit	-	100 %	-
2x Protein Inlet Buffer Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	-	25 % 500 mg	-
Protein Broad Range Gel Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	-	25 % 500 mg	-

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10x Protein Labeling Buffer					
Sodium dodecyl sulphate	Eyes - Mild irritant	Rabbit	-	250 ug	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Skin - Mild irritant	Guinea pig	-	24 hours 25	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 50	-
				mg	
	Skin - Moderate irritant	Mouse	-	24 hours 25	-
				mg	
	Skin - Moderate irritant	Rabbit	-	24 hours 25	-
				mg	

Sensitiser

Conclusion/Summary

Mutagenicity

: Not available.

Conclusion/Summary

Carcinogenicity

: Not available.

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary : Not available. Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
10x Protein Labeling Buffer Sodium dodecyl sulphate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

Protein Fluorescent Dye Dye Resuspension DMF

Capilary Storage Solution Protein Conditioning

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

10x Protein Labeling

Buffer

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Inhalation

: Protein Fluorescent Dye

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the

nose, throat and lungs.

Dye Resuspension DMF Harmful if inhaled.

Capilary Storage Solution Protein Conditioning

Solution

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

Ladder

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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SECTION 11: Toxicological information

10x Protein Labeling

No known significant effects or critical hazards.

Buffer

Protein Fluorescent Dye Ingestion Dye Resuspension DMF

Capilary Storage Solution **Protein Conditioning**

Solution

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.

2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

10x Protein Labeling

No known significant effects or critical hazards.

Buffer

Skin contact : Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution

Protein Conditioning

Solution 2x Protein Inlet Buffer

Protein Broad Range Gel P240 Broad Range Ladder

No known significant effects or critical hazards. No known significant effects or critical hazards.

Harmful in contact with skin.

May cause an allergic skin reaction.

10x Protein Labeling

Buffer

No known significant effects or critical hazards.

Eye contact : Protein Fluorescent Dye Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the

eyes.

Dye Resuspension DMF Capilary Storage Solution Protein Conditioning

Solution

Causes serious eye irritation. No known significant effects or critical hazards.

2x Protein Inlet Buffer Protein Broad Range Gel

P240 Broad Range Ladder

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.

10x Protein Labeling

No known significant effects or critical hazards.

Buffer

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation

: Protein Fluorescent Dye

Adverse symptoms may include the following:

respiratory tract irritation

coughing

Dye Resuspension DMF

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution Protein Conditioning

Solution

No specific data. No specific data.

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. P240 Broad Range No specific data.

Ladder

10x Protein Labeling

Buffer

No specific data.

Ingestion

Protein Fluorescent Dye

No specific data.

Dye Resuspension DMF

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Capilary Storage Solution Protein Conditioning

Solution

No specific data.

2x Protein Inlet Buffer

No specific data.

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Protein Broad Range Gel

P240 Broad Range

No specific data.

Ladder

10x Protein Labeling

Buffer

: Protein Fluorescent Dye No specific data.

Dye Resuspension DMF Adverse symptoms may include the following:

No specific data.

No specific data.

reduced foetal weight increase in foetal deaths skeletal malformations

Capilary Storage Solution Adverse symptoms may include the following:

> irritation redness

Protein Conditioning

Solution

No specific data.

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. P240 Broad Range No specific data.

Ladder

10x Protein Labeling

Buffer

No specific data.

Eye contact : Protein Fluorescent Dye Adverse symptoms may include the following:

> irritation redness

Dye Resuspension DMF Adverse symptoms may include the following:

> pain or irritation watering redness

Capilary Storage Solution No specific data. **Protein Conditioning**

Solution

No specific data.

2x Protein Inlet Buffer No specific data. Protein Broad Range Gel No specific data. P240 Broad Range No specific data.

Ladder

10x Protein Labeling

Buffer

No specific data.

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

Short term exposure

Potential immediate

effects

Skin contact

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General

: Protein Fluorescent Dye

Dye Resuspension DMF

Repeated or prolonged inhalation of dust may lead to

chronic respiratory irritation.

No known significant effects or critical hazards.

Capilary Storage Solution Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Protein Conditioning

Solution

No known significant effects or critical hazards.

No known significant effects or critical hazards. 2x Protein Inlet Buffer Protein Broad Range Gel No known significant effects or critical hazards. P240 Broad Range No known significant effects or critical hazards.

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SECTION 11: Toxicological information

	Ladder 10x Protein Labeling No known significant effects or critical hazards. Buffer
Carcinogenicity	: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution No known significant effects or critical hazards.
	2x Protein Inlet Buffer No known significant effects or critical hazards. Protein Broad Range Gel P240 Broad Range No known significant effects or critical hazards. No known significant effects or critical hazards. Ladder
	10x Protein Labeling No known significant effects or critical hazards. Buffer
Mutagenicity	 Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution 2x Protein Inlet Buffer Protein Broad Range Gel 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.
	P240 Broad Range No known significant effects or critical hazards. Ladder 10x Protein Labeling No known significant effects or critical hazards. Buffer
Reproductive toxicity	: Protein Fluorescent Dye Dye Resuspension DMF Capilary Storage Solution Protein Conditioning Solution No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
	2x Protein Inlet Buffer No known significant effects or critical hazards. Protein Broad Range Gel No known significant effects or critical hazards. P240 Broad Range No known significant effects or critical hazards. Ladder
	10x Protein Labeling No known significant effects or critical hazards. Buffer

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Dye Resuspension DMF Adverse symptoms include the following: central nervous system depression, liver

abnormalities.

Capilary Storage Solution Adverse symptoms may include the following: May cause skin sensitisation.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Dye Resuspension DMF			
N,N-Dimethylformamide	Acute EC50 14.4 mg/l Fresh water Acute EC50 7100000 μg/l Fresh water Acute LC50 >100000 μg/l Marine water	Daphnia - <i>Daphnia magna</i> Fish - <i>Lepomis macrochirus</i> Crustaceans - <i>Crangon crangon</i> - Adult	48 hours 96 hours 48 hours
	Chronic NOEC 1500 mg/l Fresh water Chronic NOEC 0.1 ml/L Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i> - Embryo	21 days 30 days
Capilary Storage Solution 2-methylisothiazol-3(2H)-one	Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water	Daphnia - <i>Daphnia magna</i> Fish - <i>Oncorhynchus mykiss</i>	48 hours 96 hours

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<u> </u>			
	Chronic NOEC 0.044 mg/l Fresh water	Daphnia	21 days
	Chronic NOEC 4.93 mg/l Fresh water	Fish	98 days
			•
2x Protein Inlet Buffer			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
	, teate 110 = 0 = 0 111g, 11 10011 11 atte	2 555	
Protein Broad Range Gel			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
	g,g,		
10x Protein Labeling Buffer			
Sodium dodecyl sulphate	Acute EC50 1200 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 900 µg/l Marine water	Crustaceans - Artemia salina -	48 hours
	. •	Adult	
	Acute LC50 1400 μg/l Fresh water	Daphnia - <i>Daphnia pulex</i> -	48 hours
		Neonate	
	Acute LC50 590 µg/l Fresh water	Fish - <i>Cirrhinus mrigala</i> - Larvae	96 hours
	Chronic NOEC 1.25 mg/l Marine water	Algae - <i>Ulva fasciata</i> - Zoea	96 hours
	Chronic NOEC 1 mg/l Fresh water	Crustaceans - <i>Pseudosida</i>	21 days
		ramosa - Neonate	
	Chronic NOEC 3.2 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
		Neonate	,
	Chronic NOEC 0.8 mg/l Fresh water	Fish - Gambusia holbrooki	28 days

12.2 Persistence and degradability

12.2 Persistence and degrada				
Product/ingredient name	Test	Result	Dose	Inoculum
Capilary Storage Solution 2-methylisothiazol-3(2H)-one	301D Ready Biodegradability - Closed Bottle Test	0 % - Not readily - 28 days	-	-
2x Protein Inlet Buffer				
Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-
Protein Broad Range Gel				
Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-
10x Protein Labeling Buffer				
Sodium dodecyl sulphate	OECD 301B Ready Biodegradability - CO2 Evolution Test	95 % - Readily - 28 days	20 mg/l	-

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Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Capilary Storage Solution 2-methylisothiazol-3(2H)-one	-	-	Not readily
2x Protein Inlet Buffer Trometamol	-	-	Readily
Protein Broad Range Gel Trometamol	-	-	Readily
10x Protein Labeling Buffer Sodium dodecyl sulphate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Dye Resuspension DMF N,N-Dimethylformamide	-1.01	0.79	Low
Capilary Storage Solution 2-methylisothiazol-3(2H)-one	0.119	-	Low
2x Protein Inlet Buffer Trometamol	-2.31	-	Low
Protein Broad Range Gel Trometamol	-2.31	-	Low
10x Protein Labeling Buffer Sodium dodecyl sulphate	-2.03	-	Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	νP	vB	
Protein Fluorescent Dye Proprietary	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Dye Resuspension DMF N,N-Dimethylformamide	No	N/A	No	Yes	No	N/A	No	

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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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

Packaging

Methods of disposal

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

: 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.

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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.

Additional information

ADR/RID

: Hazard identification number 90 Limited quantity See SP 251 Special provisions 251, 340, 671 Tunnel code (E)

IMDG

: <u>Emergency schedules</u> F-A, _S-P_ <u>Special provisions</u> 251, 340

IATA

: <u>Quantity limitation</u> Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960. Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

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 IMO instruments

: Not available.

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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		Reference number	Date of revision
Dye Resuspension DMF N,N-Dimethylformamide	Toxic to reproduction	Recommended	ED/169/2012	2/6/2014

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name	Identifiers	Designation [Usage]
Tye Resuspension DMF N,N-Dimethylformamide		3 30 76
Capilary Storage Solution Capilary Storage Solution		3

Label

: Protein Fluorescent Dye

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Dye Resuspension DMF

Restricted to professional users.

Capilary Storage Solution Protein Conditioning Solution 2x Protein Inlet Buffer Protein Broad Range Gel P240 Broad Range Ladder 10x Protein Labeling Buffer

Not applicable. Not applicable. Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

Danger criteria

Category

Dye Resuspension DMF

P₅c

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
1 '	Ireland Occupational Exposure Limits	dimethylformamide	Repro. Repr.1B	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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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.
China : Not determined.

Eurasian Economic

Union Japan : Russian Federation inventory: Not determined.

: Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.

Turkey: Not determined.

United States : At least one component is not listed.

Viet Nam : 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]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Dye Resuspension DMF	
Flam. Liq. 3, H226	Expert judgment
Acute Tox. 4, H312	Expert judgment
Acute Tox. 4, H332	On basis of test data
Eye Irrit. 2, H319	Expert judgment
Repr. 1B, H360D	Expert judgment
Capilary Storage Solution	
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

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SECTION 16: Other information

Dye Resuspension DMF

H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.
Causes serious eye irritation.

H332 Harmful if inhaled.
H360D May damage the unborn child.

Capilary Storage Solution

H301 Toxic if swallowed.
H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

2x Protein Inlet Buffer

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Protein Broad Range Gel

H315 Causes skin irritation.

H319 Causes serious eye irritation.

10x Protein Labeling Buffer

H228 Flammable solid.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Dye Resuspension DMF

Acute Tox. 4

Eye Irrit. 2

Flam. Liq. 3

Repr. 1B

ACUTE TOXICITY - Category 4

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

FLAMMABLE LIQUIDS - Category 3

REPRODUCTIVE TOXICITY - Category 1B

Capilary Storage Solution

Acute Tox. 2

Acute Tox. 2

Acute Tox. 3

Aquatic Acute 1

Aquatic Chronic 1

Eye Dam. 1

Acute Tox. 2

ACUTE TOXICITY - Category 2

ACUTE TOXICITY - Category 3

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

Skin Corr. 1B SKIN CORROSION/IRRITATION - Category 1B

Skin Sens. 1
Skin Sens. 1A
SKIN SENSITISATION - Category 1
SKIN SENSITISATION - Category 1A

2x Protein Inlet Buffer

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

Protein Broad Range Gel

Eye Irrit. 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2

10x Protein Labeling Buffer

Acute Tox. 4 ACUTE TOXICITY - Category 4

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Aquatic Acute 1
Aquatic Chronic 3
Eye Dam. 1
Flam. Sol. 2
Skin Irrit. 2

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
FLAMMABLE SOLIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2

Category 3

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -

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