

SAFETY DATA SHEET



NMR Sample Kit - 5 mm non-precursor, Part Number 94906574

Section 1. Identification

This product is considered an article. This Material Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

1.1 Product identifier

Product name : NMR Sample Kit - 5 mm non-precursor, Part Number 94906574

Part No. (Chemical Kit) : 94906574

Part No. :

<input checked="" type="checkbox"/> Hi Temp Cal	96812079
Lo Temp Cal	96812080
Autotest, no salt	190185506
13C S/N ASTM	9100071169
19F S/N	96812082
15N S/N	96812083

Validation date : 12/31/2015

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

Material uses :

<input checked="" type="checkbox"/> Analytical chemistry.	
NMR Tube	
<input checked="" type="checkbox"/> Hi Temp Cal	860 µl
Lo Temp Cal	860 µl
Autotest, no salt	860 µl
13C S/N ASTM	860 µl
19F S/N	860 µl
15N S/N	860 µl

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

2.1 Classification of the substance or mixture

OSHA/HCS status :

<input checked="" type="checkbox"/> Hi Temp Cal	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Lo Temp Cal	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Autotest, no salt	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
13C S/N ASTM	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
19F S/N	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
15N S/N	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 2. Hazards identification

Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Hi Temp Cal

H302	ACUTE TOXICITY (oral) - Category 4
H320	EYE IRRITATION - Category 2B
H373	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) - Category 2

Lo Temp Cal

H225	FLAMMABLE LIQUIDS - Category 2
H301	ACUTE TOXICITY (oral) - Category 3
H311	ACUTE TOXICITY (dermal) - Category 3
H331	ACUTE TOXICITY (inhalation) - Category 3
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H360	TOXIC TO REPRODUCTION (Fertility) - Category 1B
H360	TOXIC TO REPRODUCTION (Unborn child) - Category 1B
H370	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS)) - Category 1
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Autotest, no salt

H360	TOXIC TO REPRODUCTION (Fertility) - Category 1B
H360	TOXIC TO REPRODUCTION (Unborn child) - Category 1B

13C S/N ASTM

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H340	GERM CELL MUTAGENICITY - Category 1
H350	CARCINOGENICITY - Category 1A
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H372	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system, kidneys and liver) - Category 1
H304	ASPIRATION HAZARD - Category 1

19F S/N

H225	FLAMMABLE LIQUIDS - Category 2
H302	ACUTE TOXICITY (oral) - Category 4
H315	SKIN IRRITATION - Category 2
H319	EYE IRRITATION - Category 2A
H340	GERM CELL MUTAGENICITY - Category 1
H350	CARCINOGENICITY - Category 1A
H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
H372	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (blood system) - Category 1
H304	ASPIRATION HAZARD - Category 1

15N S/N

H227	FLAMMABLE LIQUIDS - Category 4
H319	EYE IRRITATION - Category 2A

Section 2. Hazards identification

H360 TOXIC TO REPRODUCTION (Unborn child) - Category 1B

2.2 GHS label elements

Hazard pictograms



Signal word

: Hi Temp Cal Warning
 Lo Temp Cal Danger
 Autotest, no salt Danger
 13C S/N ASTM Danger
 19F S/N Danger
 15N S/N Danger

Hazard statements

: Hi Temp Cal GHS SYMBOL - **Exclamation mark - Health hazard** -
 H302 - Harmful if swallowed.
 H320 - Causes eye irritation.
 H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)
 Lo Temp Cal GHS SYMBOL - **Flame - Skull and crossbones - Exclamation mark - Health hazard** -
 H225 - Highly flammable liquid and vapor.
 H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H360 - May damage fertility or the unborn child.
 H370 - Causes damage to organs. (central nervous system (CNS))
 Autotest, no salt H335 - May cause respiratory irritation.
 GHS SYMBOL - **Health hazard** -
 13C S/N ASTM H360 - May damage fertility or the unborn child.
 GHS SYMBOL - **Flame - Exclamation mark - Health hazard** -
 H225 - Highly flammable liquid and vapor.
 H302 - Harmful if swallowed.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H340 - May cause genetic defects.
 H350 - May cause cancer.
 H304 - May be fatal if swallowed and enters airways.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H372 - Causes damage to organs through prolonged or repeated exposure. (blood system, kidneys, liver)
 19F S/N GHS SYMBOL - **Flame - Exclamation mark - Health hazard** -
 H225 - Highly flammable liquid and vapor.
 H302 - Harmful if swallowed.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H340 - May cause genetic defects.
 H350 - May cause cancer.
 H304 - May be fatal if swallowed and enters airways.

Section 2. Hazards identification

15N S/N

H335 - May cause respiratory irritation.
 H336 - May cause drowsiness or dizziness.
 H372 - Causes damage to organs through prolonged or repeated exposure. (blood system)
 H227 - Combustible liquid.
 GHS SYMBOL - **Exclamation mark - Health hazard** -
 H319 - Causes serious eye irritation.
 H360 - May damage the unborn child.

Precautionary statements

Prevention

:  Temp Cal

P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.

Lo Temp Cal

P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.

Autotest, no salt

13C S/N ASTM

P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.
 P264 - Wash hands thoroughly after handling.

Section 2. Hazards identification

19F S/N

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P233 - Keep container tightly closed.
 P271 - Use only outdoors or in a well-ventilated area.
 P260 - Do not breathe vapor.
 P270 - Do not eat, drink or smoke when using this product.

15N S/N

P264 - Wash hands thoroughly after handling.
 P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing.
 P210 - Keep away from flames and hot surfaces. - No smoking.
 P264 - Wash hands thoroughly after handling.

Response

:  Temp Cal

P314 - Get medical attention if you feel unwell.
 P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.

Lo Temp Cal

P307 + P311 - IF exposed: Call a POISON CENTER or physician.
 P304 + P340 + P311 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician.
 P301 + P310 + P330 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth.
 P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
 P302 + P361+P364 + P352 + P312 + P362+P364 - IF ON SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse.
 P332 + P313 - If skin irritation occurs: Get medical attention.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

Section 2. Hazards identification

Autotest, no salt

13C S/N ASTM

contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

P308 + P313 - IF exposed or concerned: Get medical attention.

P314 - Get medical attention if you feel unwell.

P308 + P313 - IF exposed or concerned: Get medical attention.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

P314 - Get medical attention if you feel unwell.

P308 + P313 - IF exposed or concerned: Get medical attention.

P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.

P332 + P313 - If skin irritation occurs: Get medical attention.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical attention.

P308 + P313 - IF exposed or concerned: Get medical attention.


P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

19F S/N

15N S/N

Section 2. Hazards identification

Storage

 Hi Temp Cal
 Lo Temp Cal


 Autotest, no salt
 13C S/N ASTM

 19F S/N

 15N S/N

rinsing.
 P337 + P313 - If eye irritation persists: Get medical attention.
 Not applicable.
 P405 - Store locked up.
 P403 - Store in a well-ventilated place.
 P235 - Keep cool.
 P405 - Store locked up.
 P405 - Store locked up.
 P403 - Store in a well-ventilated place.
 P235 - Keep cool.
 P405 - Store locked up.
 P403 - Store in a well-ventilated place.
 P235 - Keep cool.
 P405 - Store locked up.
 P403 - Store in a well-ventilated place.
 P235 - Keep cool.

Disposal

 Hi Temp Cal

 Lo Temp Cal

 Autotest, no salt


 13C S/N ASTM

 19F S/N

 15N S/N

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


Supplemental label elements

 Hi Temp Cal
 Lo Temp Cal
 Autotest, no salt
 13C S/N ASTM
 19F S/N
 15N S/N

None known.
 None known.
 None known.
 None known.
 None known.
 None known.

2.3 Other hazards

Hazards not otherwise classified

 Hi Temp Cal
 Lo Temp Cal
 Autotest, no salt
 13C S/N ASTM
 19F S/N
 15N S/N

None known.
 None known.
 None known.
 None known.
 None known.
 None known.

Section 3. Composition/information on ingredients

This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

Section 3. Composition/information on ingredients

Substance/mixture	:	Hi Temp Cal	Substance (encapsulated in article)
		Lo Temp Cal	Substance (encapsulated in article)
		Autotest, no salt	Mixture (encapsulated in article)
		13C S/N ASTM	Mixture (encapsulated in article)
		19F S/N	Mixture (encapsulated in article)
		15N S/N	Mixture (encapsulated in article)

Ingredient name	%	CAS number
Hi Temp Cal Ethanediol	100	107-21-1
Lo Temp Cal Methanol	100	67-56-1
Autotest, no salt Methanol (¹³ C)	≤0.3	14742-26-8
13C S/N ASTM (² H ₆)benzene	≥50 - ≤75	1076-43-3
1,4-Dioxane	≥25 - ≤50	123-91-1
19F S/N (² H ₆)benzene	≥90	1076-43-3
15N S/N Formamide	≥90	75-12-7
di[(² H ₃)Methyl] sulphoxide	≥10 - ≤25	2206-27-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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


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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	:	Hi Temp Cal	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 following exposure or if feeling unwell.
		Lo Temp Cal	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 necessary, call a poison center or physician.
		Autotest, no salt	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.
		13C S/N ASTM	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Section 4. First aid measures

	19F S/N	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.
	15N S/N	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:  Hi Temp Cal	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. 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.
	Lo Temp Cal	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Autotest, no salt	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If 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.
	13C S/N ASTM	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth

Section 4. First aid measures

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.

19F S/N

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

15N S/N

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If 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.

Skin contact

:  Hi Temp Cal

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Lo Temp Cal

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.


Autotest, no salt

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

13C S/N ASTM

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash

Section 4. First aid measures

		contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	19F S/N	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	15N S/N	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:  Temp Cal	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Lo Temp Cal	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.
	Autotest, no salt	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting

Section 4. First aid measures

13C S/N ASTM

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. Loosen tight clothing such as a collar, tie, belt or waistband.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

19F S/N

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

15N S/N

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. 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.

4.2 Most important symptoms/effects, acute and delayed


Potential acute health effects

Section 4. First aid measures


Eye contact	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	Causes eye irritation. Causes serious eye irritation. No known significant effects or critical hazards. Causes serious eye irritation. Causes serious eye irritation. Causes serious eye irritation.
Inhalation	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	No known significant effects or critical hazards. Toxic if inhaled. May cause respiratory irritation. No known significant effects or critical hazards. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. No known significant effects or critical hazards.
Skin contact	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	No known significant effects or critical hazards. Toxic in contact with skin. Causes skin irritation. No known significant effects or critical hazards. Causes skin irritation. Causes skin irritation. No known significant effects or critical hazards.
Ingestion	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	Harmful if swallowed. Toxic if swallowed. No known significant effects or critical hazards. Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways. No known significant effects or critical hazards.
<u>Over-exposure signs/symptoms</u>		
Eye contact	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	Adverse symptoms may include the following: irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness No specific data. Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness Adverse symptoms may include the following: pain or irritation watering redness

Section 4. First aid measures

Inhalation

:  Temp Cal Lo Temp Cal	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
13C S/N ASTM	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
19F S/N	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
15N S/N	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Skin contact

:  Temp Cal Lo Temp Cal	No specific data. Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
13C S/N ASTM	Adverse symptoms may include the following: irritation redness
19F S/N	Adverse symptoms may include the following: irritation redness
15N S/N	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Section 4. First aid measures

Ingestion	: Hi Temp Cal Lo Temp Cal	No specific data. Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	13C S/N ASTM	Adverse symptoms may include the following: nausea or vomiting
	19F S/N	Adverse symptoms may include the following: nausea or vomiting
	15N S/N	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Hi Temp Cal	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Lo Temp Cal	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Autotest, no salt	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	13C S/N ASTM	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	19F S/N	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	15N S/N	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.
Specific treatments	: Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: Hi Temp Cal	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Lo Temp Cal	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
	Autotest, no salt	No action shall be taken involving any personal risk or without suitable training. If it is suspected that

Section 4. First aid measures

13C S/N ASTM

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.

19F S/N

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

15N S/N

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Hi Temp Cal
 Lo Temp Cal
 Autotest, no salt
 13C S/N ASTM
 19F S/N
 15N S/N

Use an extinguishing agent suitable for the surrounding fire.
 Use dry chemical, CO₂, water spray (fog) or foam.
 Use an extinguishing agent suitable for the surrounding fire.
 Use dry chemical, CO₂, water spray (fog) or foam.
 Use dry chemical, CO₂, water spray (fog) or foam.
 Use dry chemical, CO₂, water spray (fog) or foam.



Unsuitable extinguishing media

Hi Temp Cal
 Lo Temp Cal
 Autotest, no salt
 13C S/N ASTM
 19F S/N
 15N S/N

None known.
 Do not use water jet.
 None known.
 Do not use water jet.
 Do not use water jet.
 Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Section 5. Fire-fighting measures

Specific hazards arising from the chemical	:  Temp Cal	In a fire or if heated, a pressure increase will occur and the container may burst.
	Lo Temp Cal	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
	Autotest, no salt	In a fire or if heated, a pressure increase will occur and the container may burst.
	13C S/N ASTM	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
	19F S/N	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous thermal decomposition products	:  Temp Cal	Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
	Lo Temp Cal	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Autotest, no salt	Decomposition products may include the following materials: carbon dioxide carbon monoxide Formaldehyde.
	13C S/N ASTM	No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide
	19F S/N	Decomposition products may include the following materials: carbon dioxide carbon monoxide
15N S/N	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides	

5.3 Advice for firefighters

Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Hi Temp Cal

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.

Lo Temp Cal

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.

Autotest, no salt

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.

13C S/N ASTM

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.

19F S/N

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.

15N S/N

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.

Special protective equipment for fire-fighters

: Hi Temp Cal

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Lo Temp Cal

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Autotest, no salt

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

13C S/N ASTM

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

19F S/N

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

15N S/N

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

:  Temp Cal

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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Lo Temp Cal

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Autotest, no salt

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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

13C S/N ASTM

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

19F S/N

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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

15N S/N


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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

Section 6. Accidental release measures

<p>For emergency responders :  Temp Cal</p> <p>Lo Temp Cal</p> <p>Autotest, no salt</p> <p>13C S/N ASTM</p> <p>19F S/N</p> <p>15N S/N</p>	<p>appropriate personal protective equipment.</p> <p>If specialized 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".</p> <p>If specialized 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".</p> <p>If specialized 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".</p> <p>If specialized 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".</p> <p>If specialized 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".</p> <p>If specialized 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".</p>
<p>6.2 Environmental precautions :  Temp Cal</p> <p>Lo Temp Cal</p> <p>Autotest, no salt</p> <p>13C S/N ASTM</p> <p>19F S/N</p> <p>15N S/N</p>	<p>Avoid dispersal of spilled 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).</p> <p>Avoid dispersal of spilled 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).</p> <p>Avoid dispersal of spilled 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).</p> <p>Avoid dispersal of spilled 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).</p> <p>Avoid dispersal of spilled 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).</p> <p>Avoid dispersal of spilled 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).</p>


6.3 Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Methods for cleaning up	:  Hi Temp Cal	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.
	Lo Temp Cal	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.
	Autotest, no salt	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.
	13C S/N ASTM	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.
	19F S/N	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.
	15N S/N	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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures	:  Hi Temp Cal	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Lo Temp Cal	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 breathe vapor or mist. Do not ingest. Use only with

Section 7. Handling and storage

	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.
Autotest, no salt	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 vapor or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
13C S/N ASTM	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. 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.
19F S/N	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. 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

Section 7. Handling and storage

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.

15N S/N

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 vapor 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. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

:  Temp Cal

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.

Lo Temp Cal

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.

Autotest, no salt

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.

13C S/N ASTM

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.

19F S/N

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

Section 7. Handling and storage

	15N S/N	<p>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.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	:  Temp Cal	<p>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 unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
	Lo Temp Cal	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
	Autotest, no salt	<p>Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
	13C S/N ASTM	<p>Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.</p>
	19F S/N	<p>Store in accordance with local regulations. Store in</p>

Section 7. Handling and storage

15N S/N

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

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

7.3 Specific end use(s)

Recommendations

: Hi Temp Cal
 Lo Temp Cal
 Autotest, no salt
 13C S/N ASTM
 19F S/N
 15N S/N

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

Industrial sector specific solutions

: Hi Temp Cal
 Lo Temp Cal
 Autotest, no salt
 13C S/N ASTM
 19F S/N
 15N S/N

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

Section 8. Exposure controls/personal protection

Since the hazardous ingredient in this article is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> Hi Temp Cal Ethanediol	ACGIH TLV (United States, 3/2015). C: 100 mg/m ³ Form: Aerosol OSHA PEL 1989 (United States, 3/1989). CEIL: 50 ppm CEIL: 125 mg/m ³
Lo Temp Cal Methanol	ACGIH TLV (United States, 3/2015). Absorbed through skin.

Section 8. Exposure controls/personal protection

Autotest, no salt
Methanol (¹³C)

13C S/N ASTM
(²H₆)benzene

TWA: 200 ppm 8 hours.
TWA: 262 mg/m³ 8 hours.
STEL: 250 ppm 15 minutes.
STEL: 328 mg/m³ 15 minutes.
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin.
TWA: 200 ppm 8 hours.
TWA: 260 mg/m³ 8 hours.
STEL: 250 ppm 15 minutes.
STEL: 325 mg/m³ 15 minutes.
NIOSH REL (United States, 10/2013).
Absorbed through skin.
TWA: 200 ppm 10 hours.
TWA: 260 mg/m³ 10 hours.
STEL: 250 ppm 15 minutes.
STEL: 325 mg/m³ 15 minutes.
OSHA PEL (United States, 2/2013).
TWA: 200 ppm 8 hours.
TWA: 260 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2015).
Absorbed through skin.
TWA: 200 ppm 8 hours.
TWA: 262 mg/m³ 8 hours.
STEL: 250 ppm 15 minutes.
STEL: 328 mg/m³ 15 minutes.
OSHA PEL 1989 (United States, 3/1989).
Absorbed through skin.
TWA: 200 ppm 8 hours.
TWA: 260 mg/m³ 8 hours.
STEL: 250 ppm 15 minutes.
STEL: 325 mg/m³ 15 minutes.
NIOSH REL (United States, 10/2013).
Absorbed through skin.
TWA: 200 ppm 10 hours.
TWA: 260 mg/m³ 10 hours.
STEL: 250 ppm 15 minutes.
STEL: 325 mg/m³ 15 minutes.
OSHA PEL (United States, 2/2013).
TWA: 200 ppm 8 hours.
TWA: 260 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2015).
Absorbed through skin.
TWA: 0.5 ppm 8 hours.
TWA: 1.6 mg/m³ 8 hours.
STEL: 2.5 ppm 15 minutes.
STEL: 8 mg/m³ 15 minutes.
OSHA PEL 1989 (United States, 3/1989).
TWA: 1 ppm 8 hours.
STEL: 5 ppm 15 minutes.
OSHA PEL Z2 (United States, 2/2013).
TWA: 10 ppm 8 hours.
CEIL: 25 ppm
AMP: 50 ppm 10 minutes.

Section 8. Exposure controls/personal protection

1,4-Dioxane

NIOSH REL (United States, 10/2013).

TWA: 0.1 ppm 10 hours.

STEL: 1 ppm 15 minutes.

OSHA PEL (United States, 2/2013).

TWA: 1 ppm 8 hours.

STEL: 5 ppm 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

Absorbed through skin.

TWA: 25 ppm 8 hours.

TWA: 90 mg/m³ 8 hours.

NIOSH REL (United States, 10/2013).

CEIL: 1 ppm 30 minutes.

CEIL: 3.6 mg/m³ 30 minutes.

ACGIH TLV (United States, 3/2015).

Absorbed through skin.

TWA: 20 ppm 8 hours.

OSHA PEL (United States, 2/2013).

Absorbed through skin.

TWA: 100 ppm 8 hours.

TWA: 360 mg/m³ 8 hours.

19F S/N^{(2)H₆}benzene

ACGIH TLV (United States, 3/2015).

Absorbed through skin.

TWA: 0.5 ppm 8 hours.

TWA: 1.6 mg/m³ 8 hours.

STEL: 2.5 ppm 15 minutes.

STEL: 8 mg/m³ 15 minutes.

OSHA PEL 1989 (United States, 3/1989).

TWA: 1 ppm 8 hours.

STEL: 5 ppm 15 minutes.

OSHA PEL Z2 (United States, 2/2013).

TWA: 10 ppm 8 hours.

CEIL: 25 ppm

AMP: 50 ppm 10 minutes.

NIOSH REL (United States, 10/2013).

TWA: 0.1 ppm 10 hours.

STEL: 1 ppm 15 minutes.

OSHA PEL (United States, 2/2013).

TWA: 1 ppm 8 hours.

STEL: 5 ppm 15 minutes.

15N S/N

Formamide

ACGIH TLV (United States, 3/2015).

Absorbed through skin.

TWA: 10 ppm 8 hours.

TWA: 18 mg/m³ 8 hours.

OSHA PEL 1989 (United States, 3/1989).

TWA: 20 ppm 8 hours.

TWA: 30 mg/m³ 8 hours.

STEL: 30 ppm 15 minutes.

STEL: 45 mg/m³ 15 minutes.

NIOSH REL (United States, 10/2013).

Absorbed through skin.

TWA: 10 ppm 10 hours.

TWA: 15 mg/m³ 10 hours.

di[(^{2)H₃)Methyl] sulphoxide}

AIHA WEEL (United States, 10/2011).

Section 8. Exposure controls/personal protection

TWA: 250 ppm 8 hours.

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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.

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.


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.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:  i Temp Cal	Liquid.
	Lo Temp Cal	Liquid. [Clear.]
	Autotest, no salt	Liquid.
	13C S/N ASTM	Liquid.
	19F S/N	Liquid.
	15N S/N	Liquid.

Section 9. Physical and chemical properties

Color	: Hi Temp Cal	Not available.
	Lo Temp Cal	Colorless.
	Autotest, no salt	Not available.
	13C S/N ASTM	Colorless.
	19F S/N	Not available.
Odor	: Hi Temp Cal	Not available.
	Lo Temp Cal	Characteristic.
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
Odor threshold	: Hi Temp Cal	Not available.
	Lo Temp Cal	Not available.
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
pH	: Hi Temp Cal	Not available.
	Lo Temp Cal	Not available.
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
Melting point	: Hi Temp Cal	Not available.
	Lo Temp Cal	-97.8°C (-144°F)
	Autotest, no salt	3.81°C (38.9°F)
	13C S/N ASTM	6.8°C (44.2°F)
	19F S/N	5°C (41°F)
Boiling point	: Hi Temp Cal	Not available.
	Lo Temp Cal	64.7°C (148.5°F)
	Autotest, no salt	101.1°C (214°F)
	13C S/N ASTM	79.1°C (174.4°F)
	19F S/N	80°C (176°F)
Flash point	: Hi Temp Cal	Not available.
	Lo Temp Cal	Closed cup: 9.7°C (49.5°F) [Setaflash.]
	Autotest, no salt	Not available.
	13C S/N ASTM	Closed cup: -18 to 23°C (-0.4 to 73.4°F)
	19F S/N	Closed cup: -11.11°C (12°F)
Evaporation rate	: Hi Temp Cal	Not available.
	Lo Temp Cal	2.1 (butyl acetate = 1)
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
Flammability (solid, gas)	: Hi Temp Cal	Not applicable.
	Lo Temp Cal	Not applicable.
	Autotest, no salt	Not applicable.
	13C S/N ASTM	Not applicable.
	19F S/N	Not applicable.
	15N S/N	Not applicable.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Hi Temp Cal	Not available.
	Lo Temp Cal	Lower: 6%
		Upper: 44%
	Autotest, no salt	Not available.
	13C S/N ASTM	Lower: 1.3%
		Upper: 8%
	19F S/N	Not available.
	15N S/N	Not available.
Vapor pressure	: Hi Temp Cal	Not available.
	Lo Temp Cal	16.9 kPa (126.96 mm Hg) [room temperature]
	Autotest, no salt	Not available.
	13C S/N ASTM	22.1 kPa (166 mm Hg) [room temperature]
	19F S/N	Not available.
	15N S/N	Not available.
Vapor density	: Hi Temp Cal	Not available.
	Lo Temp Cal	1.1 [Air = 1]
	Autotest, no salt	Not available.
	13C S/N ASTM	>1 [Air = 1]
	19F S/N	Not available.
	15N S/N	Not available.
Relative density	: Hi Temp Cal	Not available.
	Lo Temp Cal	0.79
	Autotest, no salt	1.1 [(D2O)]
	13C S/N ASTM	0.95
	19F S/N	Not available.
	15N S/N	Not available.
Solubility	: Hi Temp Cal	Easily soluble in the following materials: cold water and hot water.
	Lo Temp Cal	Easily soluble in the following materials: cold water, hot water, methanol, n-octanol and acetone.
	Autotest, no salt	Easily soluble in the following materials: cold water and hot water.
	13C S/N ASTM	Easily soluble in the following materials: cold water and hot water.
	19F S/N	Insoluble in the following materials: cold water and hot water.
	15N S/N	Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Hi Temp Cal	Not available.
	Lo Temp Cal	-0.77
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
	15N S/N	Not available.
Auto-ignition temperature	: Hi Temp Cal	Not available.
	Lo Temp Cal	455°C (851°F)
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
	15N S/N	Not available.
Decomposition temperature	: Hi Temp Cal	Not available.
	Lo Temp Cal	Not available.
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
	15N S/N	Not available.

Section 9. Physical and chemical properties

Viscosity	: <input checked="" type="checkbox"/> Hi Temp Cal	Not available.
	Lo Temp Cal	Dynamic (room temperature): 0.54 to 0.59 mPa·s (0.54 to 0.59 cP)
	Autotest, no salt	Not available.
	13C S/N ASTM	Not available.
	19F S/N	Not available.
	15N S/N	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: <input checked="" type="checkbox"/> Hi Temp Cal	No specific test data related to reactivity available for this product or its ingredients.
	Lo Temp Cal	No specific test data related to reactivity available for this product or its ingredients.
	Autotest, no salt	No specific test data related to reactivity available for this product or its ingredients.
	13C S/N ASTM	No specific test data related to reactivity available for this product or its ingredients.
	19F S/N	No specific test data related to reactivity available for this product or its ingredients.
	15N S/N	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: <input checked="" type="checkbox"/> Hi Temp Cal	The product is stable.
	Lo Temp Cal	The product is stable.
	Autotest, no salt	The product is stable.
	13C S/N ASTM	The product is stable.
	19F S/N	The product is stable.
	15N S/N	The product is stable.
10.3 Possibility of hazardous reactions	: <input checked="" type="checkbox"/> Hi Temp Cal	Under normal conditions of storage and use, hazardous reactions will not occur.
	Lo Temp Cal	Under normal conditions of storage and use, hazardous reactions will not occur.
	Autotest, no salt	Under normal conditions of storage and use, hazardous reactions will not occur.
	13C S/N ASTM	Under normal conditions of storage and use, hazardous reactions will not occur.
	19F S/N	Under normal conditions of storage and use, hazardous reactions will not occur.
	15N S/N	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: <input checked="" type="checkbox"/> Hi Temp Cal	Combustible liquid. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
	Lo Temp Cal	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
	Autotest, no salt 13C S/N ASTM	No specific data. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low

Section 10. Stability and reactivity

	19F S/N	or confined areas. Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
	15N S/N	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: <input checked="" type="checkbox"/> Hi Temp Cal	May react or be incompatible with oxidizing materials.
	Lo Temp Cal	Reactive or incompatible with the following materials: oxidizing materials
	Autotest, no salt	May react or be incompatible with oxidizing materials.
	13C S/N ASTM	Reactive or incompatible with the following materials: oxidizing materials
	19F S/N	Reactive or incompatible with the following materials: oxidizing materials
	15N S/N	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: <input checked="" type="checkbox"/> Hi Temp Cal	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Lo Temp Cal	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Autotest, no salt	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	13C S/N ASTM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	19F S/N	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	15N S/N	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

Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Hi Temp Cal Ethanediol	LD50 Oral	Rat	4700 mg/kg	-
Lo Temp Cal Methanol	LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	145000 ppm 64000 ppm 15800 mg/kg 5600 mg/kg	1 hours 4 hours - -
Autotest, no salt Methanol (¹³ C)	LC50 Inhalation Gas. LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	145000 ppm 64000 ppm 15800 mg/kg 5600 mg/kg	1 hours 4 hours - -
13C S/N ASTM (² H ₆)benzene 1,4-Dioxane	LD50 Oral LD50 Oral	Rat Rat	930 mg/kg 4200 mg/kg	- -
19F S/N (² H ₆)benzene	LD50 Oral	Rat	930 mg/kg	-
15N S/N Formamide	LD50 Dermal LD50 Oral	Rabbit Rat	17 g/kg 4000 mg/kg	- -
di[(² H ₃)Methyl] sulphoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	- -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Hi Temp Cal Ethanediol	Eyes - Mild irritant Eyes - Mild irritant Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit Rabbit Rabbit	- - - -	24 hours 500 milligrams 1 hours 100 milligrams 6 hours 1440 milligrams 555 milligrams	- - - -
Lo Temp Cal Methanol	Eyes - Moderate irritant Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit Rabbit	- - -	24 hours 100 milligrams 40 milligrams 24 hours 20 milligrams	- - -
Autotest, no salt Methanol (¹³ C)	Eyes - Moderate irritant Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit Rabbit	- - -	24 hours 100 milligrams 40 milligrams 24 hours 20 milligrams	- - -
13C S/N ASTM (² H ₆)benzene	Eyes - Moderate irritant Eyes - Severe irritant	Rabbit Rabbit	- -	88 milligrams 24 hours 2	- -

Section 11. Toxicological information

1,4-Dioxane	Skin - Mild irritant	Rat	-	milligrams 8 hours 60 microliters	-	
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-	
	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-	
	Skin - Mild irritant	Rabbit	-	515 milligrams	-	
19F S/N (² H ₆)benzene	Eyes - Moderate irritant	Rabbit	-	88 milligrams	-	
	Eyes - Severe irritant	Rabbit	-	24 hours 2 milligrams	-	
	Skin - Mild irritant	Rat	-	8 hours 60 microliters	-	
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-	
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-	
15N S/N Formamide	Eyes - Severe irritant	Rabbit	-	100 milligrams	-	
	di[(² H ₃)Methyl] sulphoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
		Eyes - Mild irritant	Rabbit	-	100 milligrams	-
		Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	100 milligrams	-	

Conclusion/Summary

Skin : Repeated exposure may cause skin dryness or cracking.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
13C S/N ASTM (² H ₆)benzene 1,4-Dioxane	+	1	Known to be a human carcinogen. Reasonably anticipated to be a human carcinogen.
	-	2B	
19F S/N (² H ₆)benzene	+	1	Known to be a human carcinogen.

Reproductive toxicity

Not available.

Section 11. Toxicological information

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Lo Temp Cal Methanol	Category 1 Category 3	Not determined Not applicable.	central nervous system (CNS) Respiratory tract irritation
Autotest, no salt Methanol (¹³ C)	Category 1 Category 3	Not determined Not applicable.	central nervous system (CNS) Respiratory tract irritation
13C S/N ASTM (² H ₆)benzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
1,4-Dioxane	Category 3	Not applicable.	Respiratory tract irritation
19F S/N (² H ₆)benzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Hi Temp Cal Ethanediol	Category 2	Not determined	kidneys
13C S/N ASTM (² H ₆)benzene	Category 1	Oral Inhalation	blood system blood system
1,4-Dioxane	Category 1	Oral	kidneys and liver
19F S/N (² H ₆)benzene	Category 1	Oral Inhalation	blood system blood system

Aspiration hazard

Name	Result
13C S/N ASTM 13C S/N ASTM (² H ₆)benzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
19F S/N 19F S/N (² H ₆)benzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1



Section 11. Toxicological information

Information on the likely routes of exposure	Hi Temp Cal	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Lo Temp Cal	Routes of entry anticipated: Oral, Dermal, Inhalation.
	Autotest, no salt	Routes of entry anticipated: Oral, Dermal, Inhalation.
	13C S/N ASTM	Routes of entry anticipated: Oral, Dermal, Inhalation.
	19F S/N	Routes of entry anticipated: Oral, Dermal, Inhalation.
	15N S/N	Routes of entry anticipated: Oral, Dermal, Inhalation.
Potential acute health effects		
Eye contact	Hi Temp Cal	Causes eye irritation.
	Lo Temp Cal	Causes serious eye irritation.
	Autotest, no salt	No known significant effects or critical hazards.
	13C S/N ASTM	Causes serious eye irritation.
	19F S/N	Causes serious eye irritation.
	15N S/N	Causes serious eye irritation.
Inhalation	Hi Temp Cal	No known significant effects or critical hazards.
	Lo Temp Cal	Toxic if inhaled. May cause respiratory irritation.
	Autotest, no salt	No known significant effects or critical hazards.
	13C S/N ASTM	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
	19F S/N	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
	15N S/N	No known significant effects or critical hazards.
Skin contact	Hi Temp Cal	No known significant effects or critical hazards.
	Lo Temp Cal	Toxic in contact with skin. Causes skin irritation.
	Autotest, no salt	No known significant effects or critical hazards.
	13C S/N ASTM	Causes skin irritation.
	19F S/N	Causes skin irritation.
	15N S/N	No known significant effects or critical hazards.
Ingestion	Hi Temp Cal	Harmful if swallowed.
	Lo Temp Cal	Toxic if swallowed.
	Autotest, no salt	No known significant effects or critical hazards.
	13C S/N ASTM	Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	19F S/N	Harmful if swallowed. Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.
	15N S/N	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	Hi Temp Cal	Adverse symptoms may include the following: irritation watering redness
	Lo Temp Cal	Adverse symptoms may include the following: pain or irritation watering redness
	Autotest, no salt	No specific data.
	13C S/N ASTM	Adverse symptoms may include the following:

Section 11. Toxicological information

		pain or irritation watering redness
	19F S/N	Adverse symptoms may include the following: pain or irritation watering redness
	15N S/N	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	:  Hi Temp Cal Lo Temp Cal	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	13C S/N ASTM	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	19F S/N	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	15N S/N	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	:  Hi Temp Cal Lo Temp Cal	No specific data. Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	13C S/N ASTM	Adverse symptoms may include the following: irritation redness
	19F S/N	Adverse symptoms may include the following: irritation redness

Section 11. Toxicological information

	15N S/N	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal	No specific data. Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	Autotest, no salt	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
	13C S/N ASTM	Adverse symptoms may include the following: nausea or vomiting
	19F S/N	Adverse symptoms may include the following: nausea or vomiting
	15N S/N	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : Hi Temp Cal
Lo Temp Cal
Autotest, no salt
13C S/N ASTM

May cause damage to organs through prolonged or repeated exposure.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes damage to organs through prolonged or repeated exposure.

Causes damage to organs through prolonged or repeated exposure.

No known significant effects or critical hazards.

Carcinogenicity : Hi Temp Cal
Lo Temp Cal
Autotest, no salt
13C S/N ASTM

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

May cause cancer. Risk of cancer depends on duration and level of exposure.

May cause cancer. Risk of cancer depends on duration and level of exposure.

No known significant effects or critical hazards.

Mutagenicity : Hi Temp Cal
Lo Temp Cal
Autotest, no salt
13C S/N ASTM

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

May cause genetic defects.

May cause genetic defects.

No known significant effects or critical hazards.

Section 11. Toxicological information

Teratogenicity	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	No known significant effects or critical hazards. May damage the unborn child. May damage the unborn child. No known significant effects or critical hazards. No known significant effects or critical hazards. May damage the unborn child.
Developmental effects	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	No known significant effects or critical hazards. May damage fertility. May damage fertility. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
<input checked="" type="checkbox"/> Hi Temp Cal Oral	500 mg/kg
13C S/N ASTM Oral	1356.8 mg/kg
19F S/N Oral	930.5 mg/kg
15N S/N Oral	4444.4 mg/kg

Other information	: <input checked="" type="checkbox"/> Hi Temp Cal Lo Temp Cal Autotest, no salt 13C S/N ASTM 19F S/N 15N S/N	Not available. Adverse symptoms may include the following: blurred or double vision, Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage. Not available. Not available. Not available. Not available.
--------------------------	---	--

Section 12. Ecological information

12.1 Toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Hi Temp Cal Ethanediol	Acute LC50 10000000 µg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute LC50 41000000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 8050000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Lo Temp Cal Methanol	Acute EC50 24500000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
Autotest, no salt Methanol (¹³ C)	Acute EC50 16.912 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 3289 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours
13C S/N ASTM (² H ₆)benzene	Acute EC50 29000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 1600000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute EC50 9230 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 21000 µg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 5.28 ul/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
	Chronic NOEC 98 mg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.5 to 5.4 ul/L Marine water	Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	4 weeks
1,4-Dioxane	Acute LC50 6700000 µg/l Marine water	Fish - Menidia beryllina	96 hours
19F S/N (² H ₆)benzene	Acute EC50 29000 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 1600000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute EC50 9230 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 21000 µg/l Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 5.28 ul/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
	Chronic NOEC 98 mg/l Fresh water Chronic NOEC 1.5 to 5.4 ul/L Marine water	Daphnia - Daphnia magna Fish - Morone saxatilis - Juvenile (Fledgling, Hatchling, Weanling)	21 days 4 weeks
15N S/N di[(² H ₃)Methyl] sulphoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

Section 12. Ecological information

Chronic NOEC 100 µl/L Marine water

Algae - Ulva lactuca

72 hours

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Hi Temp Cal Ethenediol	-	-	Readily
Lo Temp Cal Methanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Hi Temp Cal Ethenediol	-1.36	-	low
Lo Temp Cal Methanol	-0.77	<10	low
Autotest, no salt Methanol (¹³ C)	-0.77	<10	low
13C S/N ASTM (² H ₆)benzene	2.13	11	low
1,4-Dioxane	-0.42	0.3 to 0.7	low
19F S/N (² H ₆)benzene	2.13	11	low
15N S/N Formamide	-0.82	-	low
di[(² H ₃)Methyl] sulphoxide	-1.35	3.16	low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact

Section 13. Disposal considerations

with soil, waterways, drains and sewers.

RCRA classification	:	<input checked="" type="checkbox"/> Hi Temp Cal <input type="checkbox"/> Lo Temp Cal <input type="checkbox"/> Autotest, no salt <input type="checkbox"/> 13C S/N ASTM <input type="checkbox"/> 19F S/N <input type="checkbox"/> 15N S/N	Not available. F003, D001, U154 Not available. Not available. Not available. Not available.
----------------------------	---	--	--

United States - RCRA Toxic hazardous waste "U" List

Ingredient	CAS #	Status	Reference number
Lo Temp Cal Methanol (I); Methyl alcohol (I)	67-56-1	Listed	U154
13C S/N ASTM 1,4-Dioxane; 1,4-Diethyleneoxide	123-91-1	Listed	U108

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

Regulatory information

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR**: Acetonitrile (¹⁵N); Formamide
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: Acetonitrile (¹⁵N)

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

Section 15. Regulatory information

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Fire hazard
 Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Hi Temp Cal Ethanediol	100	No.	No.	No.	Yes.	Yes.
Lo Temp Cal Methanol	100	Yes.	No.	No.	Yes.	Yes.
Autotest, no salt Methanol (¹³ C)	≤0.3	Yes.	No.	No.	Yes.	Yes.
13C S/N ASTM (² H ₆)benzene	≥50 - ≤75	Yes.	No.	No.	Yes.	Yes.
1,4-Dioxane	≥25 - ≤50	Yes.	No.	No.	Yes.	Yes.
19F S/N (² H ₆)benzene	≥90	Yes.	No.	No.	Yes.	Yes.
15N S/N Formamide	≥90	No.	No.	No.	Yes.	Yes.
di[(² H ₃)Methyl] sulphoxide	≥10 - ≤25	Yes.	No.	No.	Yes.	No.

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	Hi Temp Cal Ethanediol	107-21-1	100
	Lo Temp Cal Methanol	67-56-1	100
	13C S/N ASTM (² H ₆)benzene	1076-43-3	≥50 - ≤75
	1,4-Dioxane	123-91-1	≥25 - ≤50
Supplier notification	Hi Temp Cal Ethanediol	107-21-1	100
	Lo Temp Cal Methanol	67-56-1	100
	13C S/N ASTM		

Section 15. Regulatory information

	(² H ₆)benzene 1,4-Dioxane	1076-43-3 123-91-1	≥50 - ≤75 ≥25 - ≤50
	19F S/N (² H ₆)benzene	1076-43-3	≥90

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: ETHYLENE GLYCOL; METHANOL; FORMAMIDE; BENZENE; 1,4-DIOXANE
- New York** : The following components are listed: Ethylene glycol; Methanol; Benzene; 1,4-Dioxane
- New Jersey** : The following components are listed: ETHYLENE GLYCOL; 1,2-ETHANEDIOL; METHYL ALCOHOL; METHANOL; DIMETHYL SULFOXIDE; METHANE, SULFINYLBI-; FORMAMIDE; BENZENE; 1,4-DIOXANE; 1,4-DIETHYLENE DIOXIDE
- Pennsylvania** : The following components are listed: 1,2-ETHANEDIOL; METHANOL; di[(²H₃)Methyl] sulphoxide; FORMAMIDE; BENZENE; 1,4-DIOXANE

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Hi Temp Cal Ethenediol	No.	Yes.	No.	No.
Lo Temp Cal Methanol	No.	Yes.	No.	23000 µg/day (ingestion) 47000 µg/day (inhalation)
Autotest, no salt Methanol (¹³ C)	No.	Yes.	No.	23000 µg/day (ingestion) 47000 µg/day (inhalation)
13C S/N ASTM (² H ₆)benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)
1,4-Dioxane	Yes.	No.	Yes.	No.
19F S/N (² H ₆)benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)

Canada inventory : Not determined.

International regulations

Section 15. Regulatory information

International lists	: <input checked="" type="checkbox"/> Australia inventory (AICS) : All components are listed or exempted. China inventory (IECSC) : All components are listed or exempted. Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted. Korea inventory : Not determined. Malaysia Inventory (EHS Register) : All components are listed or exempted. New Zealand Inventory of Chemicals (NZIoC) : Not determined. Philippines inventory (PICCS) : Not determined. Taiwan Chemical Substances Inventory (TCSI) : All components are listed or exempted. Turkey inventory : Not determined.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed
Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed

Section 16. Other information

History

Date of issue	: 12/31/2015
Date of previous issue	: 05/15/2015.
Version	: 2

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.