

SAFETY DATA SHEET



ATS Sample Kit for gHX Nano Probe, Part Number 190886900

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 : ATS Sample Kit for gHX Nano Probe, Part Number 190886900
Part No. (Chemical Kit) : 190886900
Part No. : 1H S/N 190887070
 4Hz D2O 190887090
 ID 1 190887096
 1H Lineshape 190887099
 ID 2 190887097
Validation date : 12/19/2013.

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

Material uses : Analytical chemistry.
 1H S/N 42 µl
 4Hz D2O 42 µl
 ID 1 42 µl
 1H Lineshape 42 µl
 ID 2 42 µl

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 Logistics Center - Americas
 500 Ships Landing Way
 New Castle, Delaware 19720
 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 : 1H S/N	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
4Hz D2O	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.
ID 1	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Section 2. Hazards identification

1H Lineshape

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

ID 2

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

1H S/N

H302 ACUTE TOXICITY (oral) - Category 4
 H315 SKIN CORROSION/IRRITATION - Category 2
 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 H351 CARCINOGENICITY - Category 2
 H335 and H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ID 1

H302 ACUTE TOXICITY (oral) - Category 4
 H315 SKIN CORROSION/IRRITATION - Category 2
 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 H351 CARCINOGENICITY - Category 2
 H335 and H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation and Narcotic effects) - Category 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

1H Lineshape

H225 FLAMMABLE LIQUIDS - Category 2
 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
 H351 CARCINOGENICITY - Category 2
 H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

ID 2

H227 FLAMMABLE LIQUIDS - Category 4
 H320 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

2.2 GHS label elements

Hazard pictograms



Signal word

: 1H S/N Warning
 4Hz D2O No signal word.
 ID 1 Warning
 1H Lineshape Danger
 ID 2 Warning

Hazard statements

: 1H S/N H302 - Harmful if swallowed.
 H319 - Causes serious eye irritation.
 H315 - Causes skin irritation.
 H351 - Suspected of causing cancer.
 H335 - May cause respiratory irritation.
 H336 - May cause drowsiness and dizziness.
 H373 - May cause damage to organs through prolonged or repeated exposure.

Section 2. Hazards identification

4Hz D2O ID 1	No known significant effects or critical hazards. H302 - Harmful if swallowed. H319 - Causes serious eye irritation. H315 - Causes skin irritation. H351 - Suspected of causing cancer. H335 - May cause respiratory irritation. H336 - May cause drowsiness and dizziness. H373 - May cause damage to organs through prolonged or repeated exposure.
1H Lineshape	H225 - Highly flammable liquid and vapor. H319 - Causes serious eye irritation. H351 - Suspected of causing cancer. H336 - May cause drowsiness and dizziness. H373 - May cause damage to organs through prolonged or repeated exposure.
ID 2	H227 - Combustible liquid. H320 - Causes eye irritation. H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention

: 1H S/N	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required. P280 - Wear protective gloves. Wear eye or face protection. 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. P264 - Wash hands thoroughly after handling. Not applicable.
4Hz D2O ID 1	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required. P280 - Wear protective gloves. Wear eye or face protection. 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. P264 - Wash hands thoroughly after handling.
1H Lineshape	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P281 - Use personal protective equipment as required. P280 - Wear protective gloves. Wear eye or face protection. P210 - Keep away from heat, sparks, open flames and hot surfaces. - No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment.

Section 2. Hazards identification

Response

ID 2

: 1H S/N

4Hz D2O
ID 1

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.
 P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves. Wear eye or face protection.
 P210 - Keep away from flames and hot surfaces. - No smoking.
 P260 - Do not breathe vapor.
 P264 - Wash hands thoroughly after handling.
 P314 - Get medical attention if you feel unwell.
 P308 + P313 - IF exposed or concerned: Get medical attention.
 P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
 P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
 P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing 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.
 Not applicable.
 P314 - Get medical attention if you feel unwell.
 P308 + P313 - IF exposed or concerned: Get medical attention.
 P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
 P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
 P302 + P352 + P362-2 + P363 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing 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.

Section 2. Hazards identification

	1H Lineshape	<p>P314 - Get medical attention if you feel unwell. P308 + P313 - IF exposed or concerned: Get medical attention. P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. 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.</p>
	ID 2	<p>P314 - Get medical attention if you feel unwell. 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.</p>
Storage	: 1H S/N 4Hz D2O ID 1 1H Lineshape	<p>P405 - Store locked up. Not applicable. P405 - Store locked up. P405 - Store locked up. P403 - Store in a well-ventilated place. P235 - Keep cool.</p>
	ID 2	<p>P403 - Store in a well-ventilated place. P235 - Keep cool.</p>
Disposal	: 1H S/N	<p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.</p>
	4Hz D2O ID 1	<p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>
	1H Lineshape	<p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>
	ID 2	<p>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</p>
Supplemental label elements	: 1H S/N 4Hz D2O ID 1 1H Lineshape	<p>None known. None known. None known. Avoid contact with skin and clothing. Wash thoroughly after handling.</p>
	ID 2	<p>None known.</p>
2.3 Other hazards		
Hazards not otherwise classified	: 1H S/N 4Hz D2O ID 1 1H Lineshape	<p>None known. None known. None known. Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation.</p>
	ID 2	<p>None known.</p>

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.

Substance/mixture	: 1H S/N	Mixture
	4Hz D2O	Mixture
	ID 1	Mixture
	1H Lineshape	Mixture
	ID 2	Mixture

Ingredient name	%	CAS number
1H S/N		
(² H)Chloroform	60 - 100	865-49-6
Ethylbenzene	< 0.1	100-41-4
ID 1		
(² H)Chloroform	60 - 100	865-49-6
Iodomethane (¹³ C)	0.1 - 1	4227-95-6
Trimethyl phosphite	0.1 - 1	121-45-9
1H Lineshape		
(² H ₆)Acetone	60 - 100	666-52-4
Trichloromethane	5 - 10	67-66-3
ID 2		
di[(² H ₃)Methyl] sulphoxide	60 - 100	2206-27-1
Benzamide (¹⁵ N)	1 - 5	31656-62-9

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	: 1H 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.
	4Hz D2O	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	ID 1	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.
	1H Lineshape	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.
	ID 2	Immediately flush eyes with plenty of water,

Section 4. First aid measures

Inhalation

: 1H S/N

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.

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. 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.

4Hz D2O

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

ID 1

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. 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.

1H Lineshape

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. In case of inhalation of

Section 4. First aid measures

decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 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.

Skin contact

: 1H S/N

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

4Hz D2O

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

ID 1

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

1H Lineshape

Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

ID 2

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.

Ingestion

: 1H 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. 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.

4Hz D2O

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small

Section 4. First aid measures

ID 1	<p>quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.</p> <p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If 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.</p>
1H Lineshape	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If 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.</p>
ID 2	<p>Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</p>

[4.2 Most important symptoms/effects, acute and delayed](#)

[Potential acute health effects](#)

Section 4. First aid measures

Eye contact	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Causes serious eye irritation.
		No known significant effects or critical hazards.
		Causes serious eye irritation.
		Causes serious eye irritation.
Inhalation	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Causes eye irritation.
		Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		No known significant effects or critical hazards.
		Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
		No known significant effects or critical hazards.
		Causes skin irritation.
		No known significant effects or critical hazards.
Ingestion	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Causes skin irritation.
		No known significant effects or critical hazards.
		Defatting to the skin. May cause skin dryness and irritation.
		No known significant effects or critical hazards.
Over-exposure signs/symptoms	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
		No known significant effects or critical hazards.
		Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
		No known significant effects or critical hazards.
Eye contact	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach. May be irritating to mouth, throat and stomach.
		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
Eye contact	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Adverse symptoms may include the following: pain or irritation watering redness
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		Adverse symptoms may include the following: pain or irritation watering redness
		Adverse symptoms may include the following: irritation watering redness

Section 4. First aid measures

Inhalation	: 1H S/N	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	4Hz D2O ID 1	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	1H Lineshape	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	ID 2	No specific data.
Skin contact	: 1H S/N	Adverse symptoms may include the following: irritation redness
	4Hz D2O ID 1	No specific data. Adverse symptoms may include the following: irritation redness
	1H Lineshape	Adverse symptoms may include the following: irritation dryness cracking
	ID 2	No specific data.
Ingestion	: 1H S/N	No specific data.
	4Hz D2O	No specific data.
	ID 1	No specific data.
	1H Lineshape	No specific data.
	ID 2	No specific data.

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

Notes to physician	: 1H 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.
	4Hz D2O	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	ID 1	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.
	1H Lineshape	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.

Section 4. First aid measures

	ID 2	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: 1H S/N	No specific treatment.
	4Hz D2O	No specific treatment.
	ID 1	No specific treatment.
	1H Lineshape	No specific treatment.
	ID 2	No specific treatment.
Protection of first-aiders	: 1H 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.
	4Hz D2O	No action shall be taken involving any personal risk or without suitable training.
	ID 1	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.
	1H Lineshape	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.
	ID 2	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.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 1H S/N	Use an extinguishing agent suitable for the surrounding fire.
	4Hz D2O	Use an extinguishing agent suitable for the surrounding fire.
	ID 1	Use an extinguishing agent suitable for the surrounding fire.
	1H Lineshape	Use dry chemical, CO ₂ , water spray (fog) or foam.
	ID 2	Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: 1H S/N	None known.
	4Hz D2O	None known.
	ID 1	None known.
	1H Lineshape	Do not use water jet.
	ID 2	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	: 1H S/N	In a fire or if heated, a pressure increase will occur and the container may burst.
	4Hz D2O	In a fire or if heated, a pressure increase will occur and the container may burst.
	ID 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	1H Lineshape	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.
	ID 2	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. 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.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds carbonyl halides	

5.3 Advice for firefighters

Special protective actions for fire-fighters	: 1H 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.
	4Hz D2O	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.
	ID 1	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.
	1H Lineshape	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.
	ID 2	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.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters	: 1H 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.
	4Hz D2O	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	ID 1	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	1H Lineshape	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	ID 2	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** : 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.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions	: 1H S/N	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).
	4Hz D2O	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).
	ID 1	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).
	1H Lineshape	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).
	ID 2	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,

Section 6. Accidental release measures

waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

1H S/N	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.
4Hz D2O	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.
ID 1	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.
1H Lineshape	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.
ID 2	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	: 1H 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 ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	4Hz D2O	Put on appropriate personal protective equipment (see Section 8).
	ID 1	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 ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	1H Lineshape	Put on appropriate personal protective equipment

Section 7. Handling and storage

(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 ingest. 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.

ID 2

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. 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

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

7.2 Conditions for safe storage, including any incompatibilities

: 1H S/N

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.

4Hz D2O

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

Section 7. Handling and storage

ID 1	<p>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> <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>
1H Lineshape	<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>
ID 2	<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. 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>

7.3 Specific end use(s)

Recommendations

: 1H S/N	Industrial applications, Professional applications.
4Hz D2O	Industrial applications, Professional applications.
ID 1	Industrial applications, Professional applications.
1H Lineshape	Industrial applications, Professional applications.
ID 2	Industrial applications, Professional applications.

Industrial sector specific solutions

: 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
<p>1H S/N (²H)Chloroform</p> <p>Ethylbenzene</p>	<p>ACGIH TLV (United States, 3/2012). TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 9.78 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 6/2009). STEL: 2 ppm 60 minutes. STEL: 9.78 mg/m³ 60 minutes.</p> <p>OSHA PEL (United States, 6/2010). CEIL: 50 ppm CEIL: 240 mg/m³</p> <p>ACGIH TLV (United States, 3/2012). TWA: 20 ppm 8 hours.</p> <p>NIOSH REL (United States, 1/2013). STEL: 545 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m³ 10 hours. TWA: 100 ppm 10 hours.</p> <p>OSHA PEL (United States, 6/2010). TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). STEL: 545 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 435 mg/m³ 8 hours. TWA: 100 ppm 8 hours.</p>
<p>ID 1 (²H)Chloroform</p> <p>Iodomethane (¹³ C)</p>	<p>ACGIH TLV (United States, 3/2012). TWA: 10 ppm 8 hours. TWA: 49 mg/m³ 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 9.78 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 6/2009). STEL: 2 ppm 60 minutes. STEL: 9.78 mg/m³ 60 minutes.</p> <p>OSHA PEL (United States, 6/2010). CEIL: 50 ppm CEIL: 240 mg/m³</p> <p>ACGIH TLV (United States, 3/2012). Absorbed through skin. TWA: 2 ppm 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). Absorbed through skin. TWA: 2 ppm 8 hours. TWA: 10 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 6/2009).</p>

Section 8. Exposure controls/personal protection

Trimethyl phosphite

1H Lineshape
(²H₆)Acetone

Trichloromethane

ID 2
di[(²H₃)Methyl] sulphoxide

Absorbed through skin.

TWA: 2 ppm 10 hours.
TWA: 10 mg/m³ 10 hours.

OSHA PEL (United States, 6/2010).

Absorbed through skin.

TWA: 5 ppm 8 hours.
TWA: 28 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2012).

TWA: 2 ppm 8 hours.
TWA: 10 mg/m³ 8 hours.

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

TWA: 2 ppm 8 hours.
TWA: 10 mg/m³ 8 hours.

NIOSH REL (United States, 1/2013).

TWA: 2 ppm 10 hours.
TWA: 10 mg/m³ 10 hours.

ACGIH TLV (United States, 3/2012).

TWA: 500 ppm 8 hours.
TWA: 1188 mg/m³ 8 hours.
STEL: 750 ppm 15 minutes.
STEL: 1782 mg/m³ 15 minutes.

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

TWA: 750 ppm 8 hours.
TWA: 1800 mg/m³ 8 hours.
STEL: 1000 ppm 15 minutes.
STEL: 2400 mg/m³ 15 minutes.

NIOSH REL (United States, 6/2009).

TWA: 250 ppm 10 hours.
TWA: 590 mg/m³ 10 hours.

OSHA PEL (United States, 6/2010).

TWA: 1000 ppm 8 hours.
TWA: 2400 mg/m³ 8 hours.

ACGIH TLV (United States, 3/2012).

TWA: 49 mg/m³ 8 hours.
TWA: 10 ppm 8 hours.

NIOSH REL (United States, 1/2013).

STEL: 9.78 mg/m³ 60 minutes.
STEL: 2 ppm 60 minutes.

OSHA PEL (United States, 6/2010).

CEIL: 240 mg/m³
CEIL: 50 ppm

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

TWA: 9.78 mg/m³ 8 hours.
TWA: 2 ppm 8 hours.

AIHA WEEL (United States, 10/2011).

TWA: 250 ppm 8 hours.

[8.2 Exposure controls](#)

Section 8. Exposure controls/personal protection

- 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** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: 1H S/N	Liquid.
	4Hz D2O	Liquid.
	ID 1	Liquid.
	1H Lineshape	Liquid.
	ID 2	Liquid. [Clear.]
Color	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Colorless.

Section 9. Physical and chemical properties

Odor	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Ripe olive.
Odor threshold	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.
pH	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.
Melting point	: 1H S/N	-64°C (-83.2°F)
	4Hz D2O	3.81°C (38.9°F)
	ID 1	-64°C (-83.2°F)
	1H Lineshape	Not available.
	ID 2	18 to 18.54°C (64.4 to 65.4°F)
Boiling point	: 1H S/N	60.9°C (141.6°F)
	4Hz D2O	101°C (213.8°F)
	ID 1	60.9°C (141.6°F)
	1H Lineshape	55.5°C (131.9°F)
	ID 2	189°C (372.2°F)
Flash point	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Closed cup: -17°C (1.4°F)
	ID 2	Closed cup: 88°C (190.4°F)
Evaporation rate	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.
Flammability (solid, gas)	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.
Lower and upper explosive (flammable) limits	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Lower: 3%
Vapor pressure	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	0.061 kPa (0.46 mm Hg) [room temperature]
Vapor density	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	1.04 [Air = 1]

Section 9. Physical and chemical properties

Relative density	: 1H S/N	1.5
	4Hz D2O	Not available.
	ID 1	1500
	1H Lineshape	0.872
	ID 2	1.18
Solubility	: 1H S/N	Very slightly soluble in the following materials: cold water and hot water.
	4Hz D2O	Easily soluble in the following materials: cold water and hot water.
	ID 1	Very slightly soluble in the following materials: cold water and hot water.
	1H Lineshape	Easily soluble in the following materials: cold water and hot water.
	ID 2	Soluble in the following materials: cold water and hot water.
Solubility in water	: Not available.	
Partition coefficient: n-octanol/water	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.
Auto-ignition temperature	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	215°C (419°F)
Decomposition temperature	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.
Viscosity	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: 1H S/N	No specific test data related to reactivity available for this product or its ingredients.
	4Hz D2O	No specific test data related to reactivity available for this product or its ingredients.
	ID 1	No specific test data related to reactivity available for this product or its ingredients.
	1H Lineshape	No specific test data related to reactivity available for this product or its ingredients.
	ID 2	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: 1H S/N	The product is stable.
	4Hz D2O	The product is stable.
	ID 1	The product is stable.
	1H Lineshape	The product is stable.
	ID 2	The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	No specific data. No specific data. 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. 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.
10.5 Incompatible materials	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	No specific data. No specific data. No specific data. Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
1H S/N (² H)Chloroform	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	47702 mg/m ³ >20 g/kg 300 mg/kg	4 hours - -
Ethylbenzene	LC50 Inhalation Gas. LD50 Dermal LD50 Oral	Rat Rabbit Rat	4000 ppm >5000 mg/kg 3500 mg/kg	4 hours - -
ID 1 (² H)Chloroform	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	47702 mg/m ³ >20 g/kg 300 mg/kg	4 hours - -
Iodomethane (¹³ C)	LC50 Inhalation Vapor LD50 Oral	Rat Rat	1300 mg/m ³ 76 mg/kg	4 hours -
Trimethyl phosphite	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	182000 mg/m ³ 933.8 mg/kg 1350 mg/kg	1 hours - -
1H Lineshape (² H ₆)Acetone Trichloromethane	LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rat Rabbit Rat	5800 mg/kg 47702 mg/m ³ >20 g/kg 300 mg/kg	- 4 hours - -
ID 2 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
1H S/N (² H)Chloroform	Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	- -	24 hours 20 milligrams 24 hours 500 milligrams	- -
Ethylbenzene	Skin - Mild irritant	Rabbit	-	24 hours 15 milligrams	-
ID 1 (² H)Chloroform	Eyes - Moderate irritant Skin - Mild irritant	Rabbit Rabbit	- -	24 hours 20 milligrams 24 hours 500 milligrams	- -
Iodomethane (¹³ C)	Eyes - Severe irritant Skin - Mild irritant Skin - Severe irritant	Rabbit Rat Rabbit	- - -	100 milligrams 30 minutes 1 Grams 500 milligrams	- - -
Trimethyl phosphite	Skin - Mild irritant Eyes - Mild irritant Skin - Severe irritant	Human Rabbit Rabbit	- - -	10 minutes 1 Grams 0.1 Milliliters 500 milligrams	- - -

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1H Lineshape (² H ₆)Acetone	Eyes - Mild irritant	Human	-	186300 parts per million	-
	Eyes - Mild irritant	Rabbit	-	10 microliters	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
Trichloromethane	Eyes - Severe irritant	Rabbit	-	20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	395 milligrams	-
Trichloromethane	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
ID 2 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	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
1H S/N (² H)Chloroform	-	2B	Reasonably anticipated to be a human carcinogen.
Ethylbenzene	-	2B	-
ID 1 (² H)Chloroform	-	2B	Reasonably anticipated to be a human carcinogen.
Iodomethane (¹³ C)	-	3	-
1H Lineshape Trichloromethane	-	2B	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
1H S/N (² H)Chloroform	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
ID 1 (² H)Chloroform	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
Iodomethane (¹³ C)	Category 3	Not applicable.	Respiratory tract irritation
Trimethyl phosphite	Category 3	Not applicable.	Respiratory tract irritation
1H Lineshape (² H ₆)Acetone	Category 3	Not applicable.	Narcotic effects
Trichloromethane	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
1H S/N (² H)Chloroform	Category 2	Not determined	kidneys and liver
ID 1 (² H)Chloroform	Category 2	Not determined	kidneys and liver
1H Lineshape Trichloromethane	Category 2	Not determined	heart, kidneys and liver
ID 2 di[(² H ₃)Methyl] sulphoxide	Category 2	Oral	kidneys and liver

Aspiration hazard

Name	Result
1H S/N (² H)Chloroform Ethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
ID 1 (² H)Chloroform	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Potential acute health effects

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Eye contact	: 1H S/N	Causes serious eye irritation.
	4Hz D2O	No known significant effects or critical hazards.
	ID 1	Causes serious eye irritation.
	1H Lineshape	Causes serious eye irritation.
Inhalation	: 1H S/N	Causes eye irritation.
		Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
	4Hz D2O	May cause respiratory irritation. Exposure to decomposition products may cause a health hazard.
	ID 1	Serious effects may be delayed following exposure. No known significant effects or critical hazards.
Skin contact		Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
	1H Lineshape	May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	ID 2	Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness.
	: 1H S/N	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	: 1H S/N	No known significant effects or critical hazards.
	4Hz D2O	Causes skin irritation.
	ID 1	No known significant effects or critical hazards.
	1H Lineshape	Causes skin irritation.
Ingestion	: 1H S/N	Defatting to the skin. May cause skin dryness and irritation.
	4Hz D2O	No known significant effects or critical hazards.
	ID 1	Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
	1H Lineshape	No known significant effects or critical hazards.
Ingestion	: 1H S/N	Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
	4Hz D2O	No known significant effects or critical hazards.
	ID 1	Harmful if swallowed. Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
	1H Lineshape	Can cause central nervous system (CNS) depression. Irritating to mouth, throat and stomach.
Ingestion	: 1H S/N	May be irritating to mouth, throat and stomach.
	4Hz D2O	
	ID 1	
	1H Lineshape	

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: 1H S/N	Adverse symptoms may include the following: pain or irritation watering redness
	4Hz D2O	No specific data.
	ID 1	Adverse symptoms may include the following: pain or irritation watering redness
	1H Lineshape	Adverse symptoms may include the following: pain or irritation watering redness
Ingestion	: 1H S/N	Adverse symptoms may include the following: irritation watering redness
	4Hz D2O	
	ID 1	
	1H Lineshape	

Section 11. Toxicological information

Inhalation	: 1H S/N	Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	4Hz D2O ID 1	No specific data. Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	1H Lineshape	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	ID 2	No specific data.
Skin contact	: 1H S/N	Adverse symptoms may include the following: irritation redness
	4Hz D2O ID 1	No specific data. Adverse symptoms may include the following: irritation redness
	1H Lineshape	Adverse symptoms may include the following: irritation dryness cracking
	ID 2	No specific data.
Ingestion	: 1H S/N	No specific data.
	4Hz D2O	No specific data.
	ID 1	No specific data.
	1H Lineshape	No specific data.
	ID 2	No specific data.

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

Not available.

Section 11. Toxicological information

General	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. No known significant effects or critical hazards.
Mutagenicity	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	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.
Teratogenicity	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	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.
Developmental effects	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	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	: 1H S/N 4Hz D2O ID 1 1H Lineshape ID 2	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.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
1H S/N Oral	500.5 mg/kg
ID 1 Oral Dermal Inhalation (vapors)	477.3 mg/kg 50505.5 mg/kg 300 mg/l
1H Lineshape Oral	5714.3 mg/kg
ID 2 Oral	25000 mg/kg

Section 11. Toxicological information

Other information	: 1H S/N	Not available.
	4Hz D2O	Not available.
	ID 1	Not available.
	1H Lineshape	Not available.
	ID 2	Not available.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure	
1H S/N (² H)Chloroform	Acute EC50 13.3 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours	
	Acute LC50 81.5 mg/l Marine water	Crustaceans - Penaeus duorarum	48 hours	
	Acute LC50 29000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 13300 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours	
	Chronic EC10 3.61 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours	
	Ethylbenzene	Chronic NOEC 6300 µg/l Fresh water	Daphnia - Daphnia magna	21 days
		Acute EC50 4600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
		Acute EC50 3600 µg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
		Acute EC50 2970 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
		Acute LC50 5200 µg/l Marine water	Crustaceans - Americamysis bahia	48 hours
		Acute LC50 4200 µg/l Fresh water Chronic NOEC 1000 µg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata	96 hours 96 hours
	ID 1 (² H)Chloroform	Acute EC50 13.3 mg/l Fresh water	Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours
Acute LC50 81.5 mg/l Marine water		Crustaceans - Penaeus duorarum	48 hours	
Acute LC50 29000 µg/l Fresh water		Daphnia - Daphnia magna	48 hours	
Acute LC50 13300 µg/l Fresh water		Fish - Lepomis macrochirus	96 hours	
Chronic EC10 3.61 mg/l Fresh water		Algae - Chlamydomonas reinhardtii - Exponential growth phase	72 hours	
1H Lineshape (² H ₆)Acetone	Chronic NOEC 6300 µg/l Fresh water	Daphnia - Daphnia magna	21 days	
	Acute EC50 20.565 mg/l Marine water	Algae - Ulva pertusa	96 hours	
	Acute LC50 6000000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours	
	Acute LC50 10000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours	
	Acute LC50 100000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours	
	Chronic NOEC 4.95 mg/l Marine water Chronic NOEC 0.1 ml/L Fresh water	Algae - Ulva pertusa Daphnia - Daphnia magna - Neonate	96 hours 21 days	
Trichloromethane	Acute EC50 13.3 mg/l Fresh water	Algae - Chlamydomonas	72 hours	

Section 12. Ecological information

ID 2 di[(² H ₃)Methyl] sulphoxide Benzamide (¹⁵ N)	Acute EC50 2.803 mg/l Fresh water Acute LC50 63800 µg/l Fresh water	reinhardtii - Exponential growth phase Crustaceans - Cypris subglobosa Daphnia - Daphnia magna - Neonate	48 hours 48 hours
	Acute LC50 13.3 ppm Fresh water Chronic EC10 3.61 mg/l Fresh water	Fish - Lepomis macrochirus Algae - Chlamydomonas reinhardtii - Exponential growth phase	96 hours 72 hours
	Chronic NOEC 6300 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Acute LC50 661000 µg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
1H S/N Ethylbenzene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
1H S/N (² H)Chloroform Ethylbenzene	1.97 3.6	690 -	high low
ID 1 (² H)Chloroform Iodomethane (¹³ C) Trimethyl phosphite	1.97 1.57 -0.73	690 - -	high low low
1H Lineshape (² H ₆)Acetone Trichloromethane	-0.23 1.97	- 690	low high
ID 2 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

: 1H S/N
4Hz D2O
ID 1
1H Lineshape
ID 2

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.

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 with soil, waterways, drains and sewers.

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 Material 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

Additional information : **Remarks**
De minimis quantities

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 : **Commerce control list precursor**: Trimethyl phosphite
United States inventory (TSCA 8b): All components are listed or exempted.
Clean Water Act (CWA) 307: (²H)Chloroform; Ethylbenzene; Chromium(III) 4-oxopent-2-ene-2-olate; Trichloromethane
Clean Water Act (CWA) 311: (²H)Chloroform; Ethylbenzene; Trichloromethane

Clean Air Act (CAA) 112 regulated toxic substances: (²H)Chloroform; Trichloromethane

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

Section 15. Regulatory information

DEA List I Chemicals : Not listed
(Precursor Chemicals)

DEA List II Chemicals : Listed
(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
1H S/N (² H)Chloroform	60 - 100	Yes.	-	-	-	-
ID 1 (² H)Chloroform	60 - 100	Yes.	-	-	-	-
1H Lineshape Trichloromethane	5 - 10	Yes.	-	-	-	-

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
1H S/N (² H)Chloroform	60 - 100	No.	No.	No.	Yes.	Yes.
Ethylbenzene	< 0.1	Yes.	No.	No.	Yes.	Yes.
ID 1 (² H)Chloroform	60 - 100	No.	No.	No.	Yes.	Yes.
Iodomethane (¹³ C)	0.1 - 1	No.	No.	No.	Yes.	Yes.
Trimethyl phosphite	0.1 - 1	Yes.	No.	No.	Yes.	No.
1H Lineshape (² H ₆)Acetone	60 - 100	Yes.	No.	No.	Yes.	No.
Trichloromethane	5 - 10	No.	No.	No.	Yes.	Yes.
ID 2 di[(² H ₃)Methyl] sulphoxide	60 - 100	Yes.	No.	No.	Yes.	Yes.
Benzamide (¹⁵ N)	1 - 5	No.	No.	No.	Yes.	No.

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	1H S/N (² H)Chloroform Ethylbenzene	865-49-6 100-41-4	60 - 100 0.1 - 1
	ID 1 (² H)Chloroform Iodomethane (¹³ C)	865-49-6 4227-95-6	60 - 100 0.1 - 1
	1H Lineshape Trichloromethane	67-66-3	3 - 7
	ID 2 Benzamide (¹⁵ N)	31656-62-9	1 - 5
Supplier notification	1H S/N (² H)Chloroform Ethylbenzene	865-49-6 100-41-4	60 - 100 <0.1
	ID 1 (² H)Chloroform Iodomethane (¹³ C)	865-49-6 4227-95-6	60 - 100 0.1 - 1
	1H Lineshape Trichloromethane	67-66-3	3 - 7
	ID 2 Benzamide (¹⁵ N)	31656-62-9	1 - 5

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: CHLOROFORM; CHLOROFORM; ACETONE

New York

: The following components are listed: Chloroform; Methane, trichloro-; Chloroform; Methane, trichloro-; Acetone; 2-Propanone

New Jersey

: The following components are listed: CHLOROFORM; METHANE, TRICHLORO-; DIMETHYL SULFOXIDE; METHANE, SULFINYLBI-; CHLOROFORM; METHANE, TRICHLORO-; ACETONE; 2-PROPANONE

Pennsylvania

: The following components are listed: METHANE, TRICHLORO-; di[(²H₃)Methyl] sulphoxide; METHANE, TRICHLORO-; 2-PROPANONE

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
1H S/N (² H)Chloroform	Yes.	Yes.	20 µg/day (ingestion) 40 µg/day (inhalation)	No.
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.
ID 1 (² H)Chloroform	Yes.	Yes.	20 µg/day (ingestion)	No.

Section 15. Regulatory information

Iodomethane (¹³ C)	Yes.	No.	40 µg/day (inhalation) No.	No.
1H Lineshape Trichloromethane	Yes.	Yes.	20 µg/day (ingestion) 40 µg/day (inhalation)	No.

Canada inventory : Not determined.

International regulations

International lists :

- Australia inventory (AICS)**: Not determined.
- China inventory (IECSC)**: Not determined.
- Japan inventory**: Not determined.
- Korea inventory**: Not determined.
- Malaysia Inventory (EHS Register)**: Not determined.
- New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
- Philippines inventory (PICCS)**: Not determined.
- Taiwan inventory (CSNN)**: 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 : 12/19/2013.
Date of previous issue : No previous validation.
Version : 2

✔ Indicates information that has changed from previously issued version.

Notice to reader

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