

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 11/29/2010 Revision date: 12/8/2022 Supersedes: 6/17/2016 Version: 9.2

SECTION 1: Identification		
1.1. Identification		
Product form Product name Product code	Mixture DEUTERIUM CHLORIDE (D, 99.5%) DCL 20% W/W SOLUTION IN D2O DLM-2	
1.2. Recommended use and restrictions on	se	
No additional information available		
1.3. Supplier		
Cambridge Isotope Laboratories, Inc. 50 Frontage Rd 01810 ANDOVER, MA, 01810 USA T 1-800-322-1174 <u>cilsales@isotope.com</u> - <u>www.isotope.com</u>		
1.4. Emergency telephone number		
Emergency number	1-703-741-5970 Chemtrec 1-800-424-9300 24 hours	
SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixtu	•	
GHS US classification Corrosive to metals Category 1 Acute toxicity (inhalation) Category 4 Skin corrosion/irritation Category 1 Specific target organ toxicity – Single exposure, Cate Respiratory tract irritation Full text of H statements : see section 16	H290 May be corrosive to metals H332 Harmful if inhaled H314 Causes severe skin burns and eye damage ry 3, H335 May cause respiratory irritation	9
2.2. GHS Label elements, including precauti	nary statements	
GHS US labeling		
Hazard pictograms (GHS US)		
Signal word (GHS US) Hazard statements (GHS US)	Danger H290 - May be corrosive to metals H314 - Causes severe skin burns and eye damage H332 - Harmful if inhaled H335 - May cause respiratory irritation	
Precautionary statements (GHS US)	 P234 - Keep only in original container. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. 	

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P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.
P312 - Call a poison center or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material-damage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container to hazardous or special waste collection point, in
accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
DEUTERIUM OXIDE (D, 99.9%)	CAS-No.: 7789-20-0	80	Not classified
DEUTERIUM CHLORIDE (D, 99.5%)	CAS-No.: 7698-05-7	20	Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	 If you feel unwell, seek medical advice (show the label where possible). Evacuate danger area. When symptoms occur: go into open air and ventilate suspected area. If not breathing give artificial respiration. Get medical advice/attention.
First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Wash with plenty of soap and water. and soap. Get immediate medical advice/attention. Rinse cautiously with water for several minutes. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get medical advice/attention.

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4.2. Most important symptoms and effects (acute and delayed)		
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.	
Symptoms/effects after inhalation	: Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation.	
Symptoms/effects after skin contact	: Causes severe skin burns and eye damage.	
Symptoms/effects after eye contact	: Causes serious eye damage.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures			
5.1. Suitable (and unsuitable) extinguishing	ı media		
Suitable extinguishing media	: Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).		
5.2. Specific hazards arising from the chem	ical		
Fire hazard Reactivity in case of fire Hazardous decomposition products in case of fire	 May be corrosive to metals. Thermal decomposition generates : Corrosive vapors. Hydrogen chloride gas. 		
5.3. Special protective equipment and preca	autions for fire-fighters		
Firefighting instructions Protection during firefighting Other information	 DO NOT fight fire when fire reaches explosives. Evacuate area. Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment. Use water spray to cool exposed surfaces. 		

SECTION 6: Accidental release measures		
6.1. Personal precautions, protecti	ve equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: No open flames, no sparks, and no smoking. Remove all sources of ignition.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
For containment	: Clean up any spills as soon as possible, using an absorbent material to collect it. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.	
Methods for cleaning up	: Absorb spillage to prevent material-damage. This material and its container must be disposed of in a safe way, and as per local legislation.	

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6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	 Avoid all eye and skin contact and do not breathe vapor and mist. Keep away from sources of ignition - No smoking. May be corrosive to metals. Hazardous waste due to potential risk of explosion.
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray. Do not breathe dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures Storage conditions Incompatible materials	 Store in a well-ventilated place. Keep container tightly closed. Store at room temperature away from light and moisture. Heat sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DEUTERIUM CHLORIDE (D, 99.5%) DCL 20% W/W SOLUTION IN D20		
No additional information available		
DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)		
No additional information available		
DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7	7)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL C [ppm]	2 ppm Upper Respiratory Tract Irritation. Not classifiable as a human carcinogen.	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL C	7 mg/m ³ The value in mg/m3 is approximate. Ceiling limit is to be determined from breathing- zone air samples.	
OSHA PEL C [ppm]	5 ppm Ceiling limit is to be determined from breathing-zone air samples.	
Remark (OSHA)	PEL 0.3 ppm / 0.45 mg/m3 - California permissible exposure limits for chemical contaminants. C 2 ppm - California permissible exposure limits for chemical contaminants.	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL C	7 mg/m ³ Often used in aqueous solution.	
NIOSH REL C [ppm]	5 ppm Often used in aqueous solution.	
Remark (NIOSH)	Often used in an aqueous solution.	
8.2. Appropriate engineering controls	·	
Appropriate engineering controls :	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.	
Environmental exposure controls :	Avoid release to the environment.	

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8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.

Materials for protective clothing:

Wear suitable protective clothing and gloves

Hand protection:

Wear suitable protective clothing and gloves

Eye protection:

Wear eye protection. Chemical goggles or face shield with safety glasses

Skin and body protection:

Wear suitable protective clothing, gloves and eye/face protection

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and cl	nemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: Light yellow	
Odor	: There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.	
	Mixture contains one or more component(s) which have the following odour:	
	No data available	
Odor threshold	: No data available	
рН	: 6 – 8 at 25 °C (77 °F)	
Melting point	: 0 °C (32 °F); 3.8 °C (38.8 °F) - lit	
Freezing point	: 4 °C (39.2 °F)	
Boiling point	: 100 °C (212 °F) - lit.; 101.4 °C (214.5 °F) - lit	
Flash point	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Vapor pressure	: No data available	
Relative vapor density at 20°C	: No data available	
Relative density	: 1.04 g/mL at 20 °C (68 °F)	
Density	: 1.11 g/m³ at 20 °C (68 °F) (Labeled)	
Molecular mass	: 20.03 g/mol (Labeled)	
Solubility	: No data available	
Partition coefficient n-octanol/water (Log Pow)	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	

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Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Heating may cause an explosion.
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapors.

10.2. Chemical stability

Stable if stored under recommended conditions.

10.3. Possibility of hazardous reactions

Heating may cause an explosion. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

10.4. Conditions to avoid

Heat. Sparks. Open flame. Direct sunlight. Overheating.

10.5. Incompatible materials

Bases. Alkali metals. Amines. Metals. permanganates, e.g. potassium permanganate. fluorine. metal acetylides. hexalithium disilicide. May be corrosive to metals.

10.6. Hazardous decomposition products

Hydrogen chloride gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity (dermal) :	Not classified Not classified Harmful if inhaled.	
DEUTERIUM CHLORIDE (D, 99.5%) DCL 20% W/W SOLUTION IN D20		
ATE US (oral)	238 mg/kg body weight	
ATE US (gases)	1411 ppmV/4h	
ATE US (vapors)	8.3 mg/l/4h	
ATE US (dust, mist)	0.42 mg/l/4h	
DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7)		
LD50 oral	900 mg/kg Rabbit	
LC50 Inhalation - Rat [ppm]	1562 ppm/4h	
ATE US (gases)	1562 ppmV/4h	
ATE US (vapors)	3 mg/l/4h	
ATE US (dust, mist)	0.5 mg/l/4h	

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Skin corrosion/irritation	Causes severe skin burns. pH: 6 – 8 at 25 °C (77 °F)	
DEUTERIUM OXIDE (D, 99.9%) (7789-20-	0)	
рН	6 – 8 at 25 °C (77 °F)	
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 6 – 8 at 25 °C (77 °F)	
DEUTERIUM OXIDE (D, 99.9%) (7789-20-	0)	
рН	6 – 8 at 25 °C (77 °F)	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
STOT-single exposure	: May cause respiratory irritation.	
DEUTERIUM CHLORIDE (D, 99.5%) (7698	3-05-7)	
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
Potential Adverse human health effects and symptoms	: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.	
Symptoms/effects after inhalation	 Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause respiratory irritation. 	
Symptoms/effects after skin contact	: Causes severe skin burns and eye damage.	
Symptoms/effects after eye contact	: Causes serious eye damage.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	

SECTION 12: Ecological information

12.1. Toxicity			
Ecology - general :	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
DEUTERIUM CHLORIDE (D, 99.5%) DCL 20%	W/W SOLUTION IN D2O		
LC50 - Fish [1]	282 mg/l Gamubsia affinis (Mosquito fish) - 96 h		
DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7)			
LC50 - Fish [1]	282 mg/l Gamubsia affinis (Mosquito fish) - 96 h		
12.2. Persistence and degradability			
No additional information available			
12.3. Bioaccumulative potential			
No additional information available			
12.4. Mobility in soil			
No additional information available			
12.5. Other adverse effects			
No additional information available			

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13.1. Disposal methods	
Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
Product/Packaging disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
Additional information	: Hazardous waste due to potential risk of explosion.
Ecology - waste materials	: Dispose of as unused product.

In accordance with DOT / TDG / IMDG / IATA

DOT NA No: UN1789UN-No. (TDG): UN1789UN-No. (IMDG): 1789UN-No. (IATA): 1789 14.2. UN proper shipping name Proper Shipping Name (DOT): Hydrochloric acidProper Shipping Name (TDG): Hydrochloric ACIDProper Shipping Name (IMDG): HYDROCHLORIC ACIDProper Shipping Name (IATA): Hydrochloric acid	14.1. UN number	
Proper Shipping Name (DOT) : Hydrochloric acid Proper Shipping Name (TDG) : HYDROCHLORIC ACID Proper Shipping Name (IMDG) : HYDROCHLORIC ACID	UN-No. (TDG) UN-No. (IMDG)	: UN1789 : 1789
Proper Shipping Name (TDG) : HYDROCHLORIC ACID Proper Shipping Name (IMDG) : HYDROCHLORIC ACID	14.2. UN proper shipping name	
	Proper Shipping Name (TDG) Proper Shipping Name (IMDG)	: HYDROCHLORIC ACID : HYDROCHLORIC ACID

DOT

Transport hazard class(es) (DOT): 8Hazard labels (DOT): 8



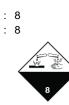
TDG

Transport hazard class(es) (TDG) Hazard labels (TDG)



IMDG

Transport hazard class(es) (IMDG) Hazard labels (IMDG)



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IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 8 : 8 ••••••••••••••••••••••••••••••••
14.4. Packing group	
Packing group (DOT) Packing group (TDG) Packing group (IMDG) Packing group (IATA)	: II : II : II : II
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
DOT UN-No.(DOT) DOT Special Provisions (49 CFR 172.102)	 UN1789 386 - Notwithstanding the provisions of §177.834(l) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private, leased or contract carrier vehicles under exclusive use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments made in accordance with this Special provision are excepted from the requirements of §173.60(b)(4) of this subchapter. A3 - For combination packaging, if glass inner packaging (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packaging. B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized. B15 - Packaging must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance. B133 - Hydrochloric acid concentration not exceeding 38%, in Packing Group II, is authorized to be packaged in UN31H1 or UN31HH1 intermediate bulk containers when loaded in accordance with the requirements of §173.35(h) of this subchapter. IB2 - Authorized IBCS: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31H21). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N41 - Metal construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T8 - 4 178.274(d)(2) Normal Prohibited TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, f is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of t
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 154 : 202 : 242 : 1 L

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DOT Quantity Limitations Cargo aircraft only (49	: 30 L
CFR 175.75)	
DOT Vessel Stowage Location	: C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 53 - Stow "separated from" alkaline compounds,58 - Stow "separated from" cyanides
TDG	
UN-No. (TDG)	: UN1789
ERAP Index	: 3000
Explosive Limit and Limited Quantity Index	: 1L
Excepted quantities (TDG)	: E2
Passenger Carrying Road Vehicle or Passenger	: 1L
Carrying Railway Vehicle Index	
Emergency Response Guide (ERG) Number	: 157
IMDG	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B20
Tank instructions (IMDG)	: T8
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: C
Segregation (IMDG)	: SGG1A, SG36, SG49
Flash point (IMDG)	
Properties and observations (IMDG)	: Colourless liquid. An aqueous solution of the gas hydrogen chloride. Highly corrosive to most
	metals. Causes burns to skin, eyes and mucous membranes.
ΙΑΤΑ	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provision (IATA)	: A3, A803
ERG code (IATA)	: 8L
· · · · · · · · · · · · · · · · ·	-

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

DEUTERIUM CHLORIDE (D, 99.5%) DCL 20% W/W SOLUTION IN D20				
SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 302				
Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):				
Name	CAS-No.	Listing	Commercial status	Flags
DEUTERIUM OXIDE (D, 99.9%)	7789-20-0	Not present	-	

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Name	CAS-No.	J	Commercial status	Flags
DEUTERIUM CHLORIDE (D, 99.5%)	7698-05-7	Not present	-	

DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)		
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302	

DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on the United States SARA Section 302
SARA Section 311/312 Hazard Classes Sudden release of pressure hazard	

15.2. International regulations

CANADA

DEUTERIUM CHLORIDE (D, 99.5%) DCL 20% W/W SOLUTION IN D20

Listed on the Canadian DSL (Domestic Substances List)

DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)

Listed on the Canadian DSL (Domestic Substances List)

DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

DEUTERIUM CHLORIDE (D, 99.5%) DCL 20% W/W SOLUTION IN D20		
State or local regulations U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List		

Component	State or local regulations
DEUTERIUM OXIDE (D, 99.9%)(7789-20-0)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
DEUTERIUM CHLORIDE (D, 99.5%)(7698-05-7)	U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) List; U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of H-phrases	
H280	Contains gas under pressure; may explode if heated
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.