



DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 12/13/2010 Revision date: 4/20/2023 Supersedes: 6/16/2016 Version: 2.2

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O
CAS-No. : 7647-01-0
Product code : DLM-3
Formula : ClH
Other means of identification : Also applicable to:
DLM-3DR (D, 99.5%) DCL 35% W/W SOLUTION IN D2O
DLM-3-H (D, 99.9%) DCL 35% W/W SOLUTION IN D2O

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

Cambridge Isotope Laboratories, Inc.
50 Frontage Rd
01810
ANDOVER, MA, 01810
USA
T 1-800-322-1174
cilsales@isotope.com - www.isotope.com

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 mixture

GHS US classification

Corrosive to metals Category 1	H290	May be corrosive to metals
Acute toxicity (inhalation:dust,mist) Category 4	H332	Harmful if inhaled
Skin corrosion/irritation Category 1A	H314	Causes severe skin burns and eye damage
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger
Hazard statements (GHS US) : H290 - May be corrosive to metals
H314 - Causes severe skin burns and eye damage

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Precautionary statements (GHS US)

H332 - Harmful if inhaled
H335 - May cause respiratory irritation
: P234 - Keep only in original container.
P260 - Do not breathe dust, fume, gas, mist, spray, vapors.
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
P264 - Wash Both hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective clothing, protective gloves.
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 Hazard pictograms (CLP) 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 Comply with applicable regulations.

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	65	Not classified
DEUTERIUM CHLORIDE (D, 99.5%)	CAS-No.: 7698-05-7	35	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 : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.

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First-aid measures after skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.
First-aid measures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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. Inhalation of vapors may cause: Burning sensation. Cough. Wheezing. Shortness of breath. Spasm, inflammation and edema of the larynx. Spasm, inflammation, and edema of the bronchi. Pulmonary edema. Pneumonitis. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.
Symptoms/effects after inhalation	: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Symptoms/effects after skin contact	: May be harmful if absorbed through the skin. Causes skin burns.
Symptoms/effects after eye contact	: Causes severe eye burns.
Symptoms/effects after ingestion	: 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 media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : hydrogen chloride.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

For containment : Clean up promptly by sweeping or vacuum.

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Methods for cleaning up : Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place.

Storage conditions : Store at room temperature away from light and moisture.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Hydrogen chloride
ACGIH OEL C [ppm]	2 ppm Upper Respiratory Tract irritation. Not classifiable as a human carcinogen.
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Hydrogen chloride
OSHA PEL C	7 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.
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL C	7 mg/m³ Often used in an aqueous solution.
NIOSH REL C [ppm]	5 ppm Often used in an aqueous solution.
DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)	
No additional information available	
DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL C [ppm]	2 ppm Upper Respiratory Tract Irritation. Not classifiable as a human carcinogen.

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DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7)	
USA - OSHA - Occupational Exposure Limits	
OSHA PEL C	7 mg/m ³ The value in mg/m ³ 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/m ³ - 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

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

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

Hand protection:
Wear suitable protective clothing and gloves
Eye protection:
Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection:
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection:
When appropriate, use NIOSH/CEN approved respirator.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical 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
pH	: 6 – 8 at 25 °C (77 °F)

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Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
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	: No data available
Density	: 1.25 g/ml
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
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Not available.

10.2. Chemical stability

Stable if stored under recommended conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Not available.

10.5. Incompatible materials

Bases. amines. Alkali metals. metals. permanganates, e.g. potassium permanganate. fluorine. metal acetylides. hexalithium disilicide.

10.6. Hazardous decomposition products

Hydrogen chloride gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.

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DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)	
LC50 Inhalation - Rat [ppm]	1411 ppm
ATE US (gases)	1562 ppmV/4h
ATE US (dust, mist)	1.5 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
Skin corrosion/irritation	: Causes severe skin burns. pH: 6 – 8 at 25 °C (77 °F)
DEUTERIUM OXIDE (D, 99.9%) (7789-20-0)	
pH	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)	
pH	6 – 8 at 25 °C (77 °F)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
DEUTERIUM CHLORIDE (D, 99.5%) (7698-05-7)	
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. Inhalation of vapors may cause: Burning sensation. Cough. Wheezing. Shortness of breath. Spasm, inflammation and edema of the larynx. Spasm, inflammation, and edema of the bronchi. Pulmonary edema. Pneumonitis. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.
Symptoms/effects after inhalation	: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Symptoms/effects after skin contact	: May be harmful if absorbed through the skin. Causes skin burns.
Symptoms/effects after eye contact	: Causes severe eye burns.
Symptoms/effects after ingestion	: Harmful if swallowed.

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SECTION 12: Ecological information

12.1. Toxicity

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LC50 - Fish [1]	282 mg/l Gamubisia affinis (Mosquito fish) - 96 h
EC50 - Crustacea [1]	0.492 mg/l

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

LC50 - Fish [1]	282 mg/l Gamubisia affinis (Mosquito fish) - 96 h
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12.2. Persistence and degradability

DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)

Persistence and degradability	Not available.
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12.3. Bioaccumulative potential

DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)

Bioaccumulative potential	Not available.
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12.4. Mobility in soil

DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)

Ecology - soil	Not available.
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12.5. Other adverse effects

Other adverse effects : Not available.

SECTION 13: Disposal considerations

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.
Ecology - waste materials	: Dispose of as unused product.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No	: UN1789
UN-No. (TDG)	: UN1789
UN-No. (IMDG)	: 1789
UN-No. (IATA)	: 1789

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Hydrochloric acid
Proper Shipping Name (TDG)	: HYDROCHLORIC ACID

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Proper Shipping Name (IMDG) : HYDROCHLORIC ACID
Proper Shipping Name (IATA) : Hydrochloric acid

14.3. Transport hazard class(es)

DOT

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



TDG

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



IMDG

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



IATA

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



14.4. Packing group

Packing group (DOT) : II
Packing group (TDG) : II
Packing group (IMDG) : II
Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT
UN-No.(DOT) : UN1789

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DOT Special Provisions (49 CFR 172.102)	: 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 (31HZ1). 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, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
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	: 1 L
Excepted quantities (TDG)	: E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 1 L
Emergency Response Guide (ERG) Number	: 157
IMDG	
Limited quantities (IMDG)	: 1 L
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

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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.
MFAG-No	: 157

IATA

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 35% W/W SOLUTION IN D2O (7647-01-0)

Not subject to reporting requirements of the United States SARA Section 313
Subject to reporting requirements of United States SARA Section 313
Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

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

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

15.2. International regulations

CANADA

DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)
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)
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

DEUTERIUM CHLORIDE (D, 99.5%) DCL 35% W/W SOLUTION IN D2O (7647-01-0)	
State or local regulations	U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Revision date : 04/20/2023

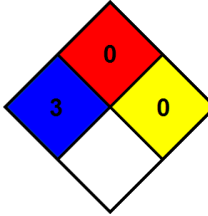
Other information : This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the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

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Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.	
NFPA fire hazard	: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.	
Hazard Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.	

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.