



DEUTERIUM CHLORIDE (D, 99%)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 13/12/2010
DLM-458

Revision date: 24/03/2021

Supersedes: 15/06/2016

Version: 12.0

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

1.1. Product identifier

Product form : Substance
Substance name : DEUTERIUM CHLORIDE (D, 99%)
EC Index-No. : 017-002-00-2 (Unlabeled)
EC-No. : 231-595-7 (Unlabeled)
CAS-No. : 7698-05-7
REACH registration No : 01-2119484862-27
Product code : DLM-458
Formula : DCI
Synonyms : HCl

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

1.2.1. Relevant identified uses

Main use category : Professional use
Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.
50 Frontage Road
Andover, MA 01810
USA

USA: 1-800-322-1174 Int: 1-978-749-8000
cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours)
International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Press. Gas (Comp.) H280
Acute Tox. 3 (Inhalation:gas) H331
Skin Corr. 1A H314
Eye Dam. 1 H318
STOT SE 3 H335

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

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

R5
C; R35
Xi; R41
T; R23
Xi; R37

Full text of R-phrases: see section 16

GHS-US classification

Press. Gas (Comp.) H280
Acute Tox. 3 (Inhalation) H331
Skin Corr. 1A H314
Eye Dam. 1 H318
STOT SE 3 H335

Full text of H statements : see section 16

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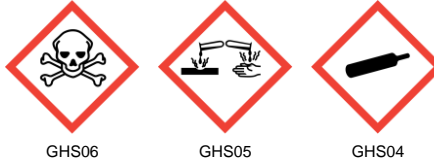
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

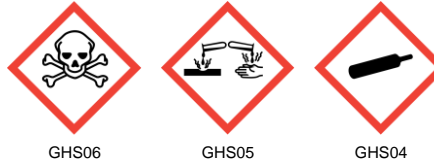
H280 - Contains gas under pressure; may explode if heated
H314 - Causes severe skin burns and eye damage
H331 - Toxic if inhaled
H335 - May cause respiratory irritation
H318 - Causes serious eye damage

Precautionary statements (CLP) :

P260 - Do not breathe dust, fume, mist, gas, 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.

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H280 - Contains gas under pressure; may explode if heated
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H331 - Toxic if inhaled
H335 - May cause respiratory irritation

Precautionary statements (GHS-US) :

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
P311 - 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.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.
P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

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SECTION 3: Composition/Information on ingredients

3.1. Substances

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|-----------------------------|---|-----|--|
| DEUTERIUM CHLORIDE (D, 99%) | (CAS-No.) 7698-05-7 (EC-No.) 231-595-7 (Unlabeled) (EC Index-No.) 017-002-00-2 (Unlabeled) (REACH-no) 01-2119484862-27 | 100 | R5 C; R35 Xi; R41 T; R23 Xi; R37 |

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------------------|---|-----|---|
| DEUTERIUM CHLORIDE (D, 99%) | (CAS-No.) 7698-05-7 (EC-No.) 231-595-7 (Unlabeled) (EC Index-No.) 017-002-00-2 (Unlabeled) (REACH-no) 01-2119484862-27 | 100 | Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation), H318, H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 |

Full text of R- and H- phrases: see section 16

| Name | Product identifier | % | GHS-US classification |
|---|---------------------|-----|---|
| DEUTERIUM CHLORIDE (D, 99%) (Main constituent) | (CAS-No.) 7698-05-7 | 100 | Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 |

Full text of H-phrases: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Move out of dangerous area. Consult a physician and show this safety data sheet. |
| First-aid measures after inhalation | : If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician. |
| 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, both acute and delayed

| | |
|-------------------------------------|---|
| Symptoms/effects after inhalation | : Toxic 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. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture

Fire hazard : Contains gas under pressure; may explode if heated.

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Fight fire with normal precautions from a reasonable distance. Wear a self contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Wear recommended personal protective equipment. |
| Other information | : Use water spray to cool unopened containers. |

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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

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

Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

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 vapor or mist.

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.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| DEUTERIUM CHLORIDE (D, 99%) (7698-05-7) | | |
|---|--|--|
| Italy - Portugal - USA ACGIH | ACGIH Ceiling (ppm) | 2 ppm Upper Respiratory Tract Irritation. Not classifiable as a human carcinogen. |
| USA NIOSH | NIOSH REL (ceiling) (mg/m ³) | 7 mg/m ³ Often used in aqueous solution. |
| USA NIOSH | NIOSH REL (ceiling) (ppm) | 5 ppm Often used in aqueous solution. |
| USA NIOSH | Remark (NIOSH) | Often used in an aqueous solution. |
| USA OSHA | OSHA PEL (Ceiling) (mg/m ³) | 7 mg/m ³ The value in mg/m ³ is approximate. Ceiling limit is to be determined from breathing-zone air samples. |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 5 ppm Ceiling limit is to be determined from breathing-zone air samples. |
| USA OSHA | 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. |

8.2. Exposure controls

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

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 safety glasses with side shields (or goggles) and a face shield.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

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Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.
Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Gas
Appearance : Compressed Gas
Molecular mass : 37.47 g/mol (Labeled)
Color : Colorless
Odor : No data available
Odor threshold : No data available
pH : No data available
Relative evaporation rate (butyl acetate=1) : No data available
Melting point : -114 °C (-173 °F) - lit.
Freezing point : No data available
Boiling point : -85 °C (-121 °F) - lit.
Flash point : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Flammability (solid, gas) : No data available
Vapor pressure : 226.636 hPa at 21.1 °C (70.0 °F);
546.596 hPa at 37.7 °C (99.9 °F)
Relative vapor density at 20 °C : No data available
Relative density : No data available
Relative gas density : 1.18 g/mL at 25 °C (77 °F)
Solubility : Soluble in water.
Log Pow : No data available
Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosion limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information 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

No additional information 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 : Inhalation:gas: Toxic if inhaled.

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| | |
|---------------------------|------------------|
| LD50 oral | 900 mg/kg Rabbit |
| LC50 inhalation rat (ppm) | 1562 ppm/4h |

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| DEUTERIUM CHLORIDE (D, 99%) (7698-05-7) | |
|---|---|
| ATE CLP (gases) | 1562.000 ppmV/4h |
| Skin corrosion/irritation | : Skin - Reconstructed human epidermis (RhE) - Result: Corrosive - (OECD Test Guideline 431) |
| Serious eye damage/irritation | : Eyes - Bovine cornea - Result: Corrosive - (OECD Test Guideline 437) |
| Respiratory or skin sensitization | : Maximisation Test - Guinea pig. Result: negative - (OECD Test Guideline 406) |
| Germ cell mutagenicity | : Chromosome aberration test in vitro. Chinese hamster ovary cells. Result: Conflicting results have been seen in different studies. |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity – single exposure | : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation - Acute inhalation toxicity - mucosal irritations, Cough, Shortness of breath, Inhalation may lead to the formation of oedemas in the respiratory tract, Possible damages:; damage of respiratory tract, tissue damage(Hydrochloric Acid) |
| Specific target organ toxicity – repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Potential Adverse human health effects and symptoms | : Burning sensation. Cough. Laryngitis. 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. 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 | : Toxic 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%) (7698-05-7)

| | |
|-------------|---|
| LC50 fish 1 | 282 mg/l <i>Gambusia affinis</i> (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. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : May be harmful to aquatic organisms due to the shift of the pH.

SECTION 13: Disposal considerations

13.1. Waste treatment 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 ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No.(DOT) : 1050

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DOT NA no. UN1050

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Hydrogen chloride, anhydrous
Class (DOT) : 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115
Hazard labels (DOT) : 2.3 - Poison gas
8 - Corrosive



DOT Special Provisions (49 CFR 172.102) : 3 - This material is poisonous by inhalation (see 171.8 of this subchapter) in Hazard Zone C (see 173.116(a) of this subchapter), and must be described as an inhalation hazard under the provisions of this subchapter.
N86 - UN pressure receptacles made of aluminum alloy are not authorized.
N89 - When steel UN pressure receptacles are used, only those bearing the "H" mark are authorized.

DOT Packaging Exceptions (49 CFR 173.xxx) : None
DOT Packaging Non Bulk (49 CFR 173.xxx) : 304
DOT Packaging Bulk (49 CFR 173.xxx) : None
DOT RQ : 5000 lbs
Marine pollutant : No

14.3. Additional information

Other information : No supplementary information available.
Special transport precautions : IATA Passenger/Cargo: Not permitted for transport.

Overland transport

Class (ADR) : 2 - Gases
Hazard identification number (Kemler No.) : 268
Classification code (ADR) : 2TC
Hazard labels (ADR) : 2.3 - Toxic gases
8 - Corrosive substances



Orange plates : 

Tunnel restriction code (ADR) : C/D
Limited quantities (ADR) : 0
EAC : 2RE
APP : A(c)
Excepted quantities (ADR) : E0

Transport by sea

DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"
MFAG-No : 125

Air transport

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : Forbidden

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DOT Quantity Limitations Cargo aircraft only (49 : Forbidden
CFR 175.75)

Civil Aeronautics Law : Gases under pressure/Gases toxic under pressure

14.4. Environmental hazards

Other information : No supplementary information available.

14.5. Special precautions for user

Special transport precautions : IATA Passenger/Cargo: Not permitted for transport.

14.6. 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%) (7698-05-7)

| | |
|--|---|
| SARA Section 302 Threshold Planning Quantity (TPQ) | Subject to reporting requirements of United States SARA Section 302 |
| SARA Section 311/312 Hazard Classes | Sudden release of pressure hazard |
| SARA Section 313 - Emission Reporting | Subject to reporting requirements of United States SARA Section 313 |

15.2. International regulations

CANADA

DEUTERIUM CHLORIDE (D, 99%) (7698-05-7)

Not listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

DEUTERIUM CHLORIDE (D, 99%)(7698-05-7)

| | |
|---|---|
| U.S. - California - Proposition 65 - Carcinogens List | No |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |
| State or local regulations | 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

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 R-, H- and EUH-phrases:

| | |
|-------------------------------|---|
| Acute Tox. 3 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 3 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Press. Gas (Comp.) | Gases under pressure Compressed gas |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H280 | Contains gas under pressure; may explode if heated |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |

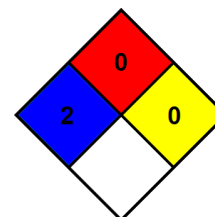
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| | |
|------|----------------------------------|
| H331 | Toxic if inhaled |
| H335 | May cause respiratory irritation |
| R23 | Toxic by inhalation |
| R35 | Causes severe burns |
| R37 | Irritating to respiratory system |
| R41 | Risk of serious damage to eyes |
| R5 | Heating may cause an explosion |
| C | Corrosive |
| T | Toxic |
| Xi | Irritant |

- NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual 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 : 1 Slight Hazard
- Physical : 1 Slight Hazard

CIL Substance SDS

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