

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 05/25/2017

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form	: Substance
Substance name	: Methyl Mercaptan (Compressed)
CAS-No.	: 74-93-1
Product code	: CA-1001-05296
Formula	: CH ₄ S
Synonyms	: Methylmercaptan / Methanethiol / Thiomethanol / Thiomethyl alcohol

1.2. Recommended use and restrictions on use

Recommended uses and restrictions	: Various
-----------------------------------	-----------

1.3. Supplier

Air Liquide Canada Inc.
 1250, René Lévesque West Blvd. Suite 1700
 H3B 5E6 Montreal, QC - Canada
 T 1-800-817-7697
www.airliquide.ca

1.4. Emergency telephone number

Emergency number	: 514-878-1667
------------------	----------------

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-CA)

Flammable gases, Category 1	H220
Gases under pressure : Liquefied gas	H280
Acute toxicity (inhalation:gas) Category 3	H331
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-CA labelling

Hazard pictograms (GHS-CA)



Signal word (GHS-CA)

: Danger

Hazard statements (GHS-CA)

: H280 - Contains gas under pressure; may explode if heated
 H220 - Extremely flammable gas
 H331 - Toxic if inhaled
 H400 - Very toxic to aquatic life
 H410 - Very toxic to aquatic life with long lasting effects
 H401 - Toxic to aquatic life

Precautionary statements (GHS-CA)

: P381 - In case of leakage, eliminate all ignition sources
 P377 - Leaking gas fire: Do not extinguish unless leak can be stopped safely
 P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.
 P403 - Store in a well-ventilated place
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed
 P391 - Collect spillage
 P410+P403 - Protect from sunlight. Store in a well-ventilated place
 P405 - Store locked up
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 P311 - Call a POISON CENTER or doctor

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

P321 - Specific treatment (see supplemental first aid instruction on this label)
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

2.3. Other hazards

Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS-CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Chemical name/Synonyms	Product identifier	%	Classification (GHS-CA)
Methyl Mercaptan (Compressed) (Main constituent)	Methylmercaptan / Methanethiol / Thiomethanol / Thiomethyl alcohol	(CAS-No.) 74-93-1	100	Flam. Gas 1, H220 Press. Gas (Liq.), H280 Acute Tox. 3 (Inhalation:gas), H331 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.

First-aid measures after skin contact : For liquid spillage - flush with water for at least 15 minutes.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

First-aid measures after ingestion : Ingestion is not considered a potential route of exposure.

4.2. Most important symptoms and effects (acute and delayed)

Most important symptoms and effects, both acute and delayed : May cause headache, nausea and irritation of respiratory tract. Refer to section 11.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Obtain medical assistance.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

No additional information available

5.2. Unsuitable extinguishing media

No additional information available

5.3. Specific hazards arising from the hazardous product

Hazardous combustion products : If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition: Carbon monoxide. Sulphur dioxide.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Exposure to fire may cause containers to rupture/explode.

Specific methods : Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.

Special protective equipment for fire fighters : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

- Try to stop release. Evacuate area. Monitor concentration of released product. Consider the risk of potentially explosive atmospheres. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Eliminate ignition sources. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Personal Precautions, Protective Equipment and Emergency Procedures

- EVACUATE ALL PERSONNEL FROM AFFECTED AREA. Use appropriate protective equipment. If leak is on user's equipment, be certain to purge piping before attempting repairs. If leak is on a container or container valve contact the closest Air Liquide Canada location.

6.2. Methods and materials for containment and cleaning up

Methods and material for containment and cleaning up

- Ventilate area. Keep area evacuated and free from ignition sources until any spilled liquid has evaporated (ground free from frost).

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe use of the product

- The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularly) checked for leaks before use. Do not smoke while handling product. Avoid exposure, obtain special instructions before use. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Installation of a cross purge assembly between the cylinder and the regulator is recommended. Avoid suck back of water, acid and alkalis. Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment. Purge air from system before introducing gas. Take precautionary measures against static discharge. Keep away from ignition sources (including static discharges). Consider the use of only non-sparking tools.

Safe handling of the gas receptacle

- Refer to supplier's container handling instructions. Do not allow backfeed into the container. Protect cylinders from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. If user experiences any difficulty operating cylinder valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to transfer gases from one cylinder/container to another. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the cylinder contents.

7.2. Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities

- Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container valve guards or caps should be in place. Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. Keep container below 50°C in a well ventilated place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials. Segregate from oxidant gases and other oxidants in store. All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Methyl Mercaptan (Compressed) (74-93-1)		
USA - ACGIH	ACGIH TWA (ppm)	0.5 ppm
USA - OSHA	OSHA PEL (Ceiling) (mg/m ³)	20 mg/m ³
USA - OSHA	OSHA PEL (Ceiling) (ppm)	10 ppm
Canada (Quebec)	VEMP (mg/m ³)	0.98 mg/m ³
Canada (Quebec)	VEMP (ppm)	0.5 ppm

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Methyl Mercaptan (Compressed) (74-93-1)		
Alberta	OEL TWA (mg/m ³)	1 mg/m ³
Alberta	OEL TWA (ppm)	0.5 ppm
British Columbia	OEL TWA (ppm)	0.5 ppm
Manitoba	OEL TWA (ppm)	0.5 ppm
New Brunswick	OEL TWA (mg/m ³)	0.98 mg/m ³
New Brunswick	OEL TWA (ppm)	0.5 ppm
Newfoundland & Labrador	OEL TWA (ppm)	0.5 ppm
Nova Scotia	OEL TWA (ppm)	0.5 ppm
Nunavut	OEL STEL (ppm)	1.5 ppm
Nunavut	OEL TWA (ppm)	0.5 ppm
Northwest Territories	OEL STEL (ppm)	1.5 ppm
Northwest Territories	OEL TWA (ppm)	0.5 ppm
Ontario	OEL TWA (ppm)	0.5 ppm
Prince Edward Island	OEL TWA (ppm)	0.5 ppm
Saskatchewan	OEL STEL (ppm)	1.5 ppm
Saskatchewan	OEL TWA (ppm)	0.5 ppm
Yukon	OEL Ceiling (mg/m ³)	5.9 mg/m ³
Yukon	OEL Ceiling (ppm)	3 ppm

8.2. Appropriate engineering controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation. Product to be handled in a closed system. Preferably use permanent leak-tight installations (e.g. welded pipes). Systems under pressure should be regularly checked for leakages. Ensure exposure is below occupational exposure limits (where available). Alarm detectors should be used when toxic gases may be released. Consider the use of a work permit system e.g. for maintenance activities.

Environmental exposure controls

: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gloves. Safety glasses. Protective clothing. Safety shoes.

Hand protection:

Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk. Wear chemically resistant protective gloves. Standard EN 374 - Protective gloves against chemicals. Permeation time: minimum >30min short term exposure: material / thickness / [mm]. Nitrile rubber (NBR). Consult glove manufacturer's product information on material suitability and material thickness. The breakthrough time of the selected gloves must be greater than the intended use period.

Eye protection:

Wear safety glasses with side shields. Wear goggles when transfilling or breaking transfer connections. Standard EN 166 - Personal eye-protection - specifications

Respiratory protection:

Gas filters do not protect against oxygen deficiency. Keep self contained breathing apparatus readily available for emergency use. Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known. Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers. Recommended: Filter AX (brown). Consult respiratory device supplier's product information for the selection of the appropriate device. Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.



Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Thermal hazard protection:

None necessary.

Other information:

Consider the use of flame resistant anti-static safety clothing. Standard EN ISO 14116 - Limited flame spread materials. Standard EN ISO 1149-5 - Protective clothing: Electrostatic properties. Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear. Keep suitable chemically resistant protective clothing readily available for emergency use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Gas
Appearance	: Colorless liquid at low temperature or under pressure. Colorless gas at room temperature and pressure.
Colour	: Colourless.
Odour	: Extremely disagreeable. Odour can persist.
Odour threshold	: No data available
pH	: Not applicable.
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Not applicable for gases and gas mixtures.
Molecular mass	: 48.11 g/mol
Melting point	: -123 °C
Freezing point	: -123 °C
Boiling point	: 6.9500000000 °C
Flash point	: Not applicable for gases and gas mixtures.
Critical temperature	: 197.85 °C
Auto-ignition temperature	: 360 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 797.7854712686 mbar
Vapour pressure at 50 °C	: No data available
Critical pressure	: 7230 kPa
Relative vapour density at 20 °C	: 1.66
Relative density	: 0.89
Density	: 0.87 g/cm³ (at 20 °C)
Relative gas density	: 1.6
Solubility	: Water: 23300 mg/l
Log Pow	: Not known
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Explosive properties	: Not applicable.
Oxidising properties	: None.
Explosive limits	: 4.1 - 21 vol %

9.2. Other information

Gas group	: Press. Gas (Liq.)
Additional information	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: No reactivity hazard other than the effects described in sub-sections below.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: May react violently with oxidants. Can form explosive mixture with air.
Conditions to avoid	: Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
Incompatible materials	: Air, Oxidisers. For additional information on compatibility refer to ISO 11114.

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Hazardous decomposition products : 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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Inhalation:gas: Toxic if inhaled.

Methyl Mercaptan (Compressed) (1f)74-93-1	
LD50 oral rat	109.6 mg/kg
LD50 dermal rat	> 84.8 mg/kg
LC50 inhalation rat (ppm)	675 ppm/4h
ATE CA (oral)	109.60000000 mg/kg bodyweight
ATE CA (gases)	675.00000000 ppmv/4h

Skin corrosion/irritation : Not classified
pH: Not applicable.
Serious eye damage/irritation : Not classified
pH: Not applicable.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Methyl Mercaptan (Compressed) (74-93-1)	
LC50-96 h - fish [mg/l]	1.8 mg/l
EC50 48h - Daphnia magna [mg/l]	1.32 - 2.46 mg/l
EC50 72h Algae [mg/l]	6.3 - 15 mg/l

12.2. Persistence and degradability

Methyl Mercaptan (Compressed) (74-93-1)
Persistence and degradability : The substance is readily biodegradable. Unlikely to persist.

12.3. Bioaccumulative potential

Methyl Mercaptan (Compressed) (74-93-1)	
Log Pow	Not known
Bioaccumulative potential	No data available.

12.4. Mobility in soil

Methyl Mercaptan (Compressed) (74-93-1)	
Log Pow	Not known
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.

12.5. Other adverse effects

Effect on global warming : No known effects from this product.
Effect on ozone layer : None.

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional legislation (waste)	: U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261. U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics.
Waste treatment methods	: Must not be discharged to atmosphere. Toxic and corrosive gases formed during combustion should be scrubbed before discharge to atmosphere. Ensure that the emission levels from local regulations or operating permits are not exceeded. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.org for more guidance on suitable disposal methods.
Additional information	: None.
List of hazardous wastes	: 16 05 04 *: Gases in pressure containers (including halons) containing dangerous substances.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG)	: UN1064
TDG Primary Hazard Classes	: 2.3 - Class 2.3 - Toxic Gas.
TDG Subsidiary Classes	: 2.1
Transport Document Description	: UN1064 METHYL MERCAPTAN, 2.3 (2.1)
Proper Shipping Name	: METHYL MERCAPTAN
Hazard labels (TDG)	: 2.3 - Toxic gases 2.1 - Flammable gases
	
TDG Special Provisions	: 23 - (1) A consignor of these dangerous goods must include, except for UN1005, ANHYDROUS AMMONIA, the words "toxic by inhalation" or "toxic — inhalation hazard" or "toxique par inhalation" or "toxicité par inhalation" in the following places, unless the words are already part of the shipping name: (a)on a shipping document, immediately after the description of the dangerous goods; (b)on a small means of containment, next to the shipping name of the dangerous goods; and (c)on a large means of containment, next to the placard for the primary class of the dangerous goods or the placard for the subsidiary class, if any. For example, the notation on a shipping document would be "UN1935, CYANIDE SOLUTION, N.O.S, Class 6.1, PG I, toxic by inhalation". (2) This special provision does not apply to a person who transports these dangerous goods in accordance with an exemption set out in sections 1.15, 1.17 or 1.17.1 of Part 1 (Coming Into Force, Repeal, Interpretation, General Provisions and Special Cases). (3) A consignor of UN1005, ANHYDROUS AMMONIA, must include the words "inhalation hazard" or "dangereux par inhalation": (a)on a shipping document, immediately after the shipping name of the dangerous goods; and (b)on a small means of containment, next to the shipping name of the dangerous goods. When UN1005, ANHYDROUS AMMONIA, is contained in a large means of containment on which is affixed the anhydrous ammonia placard, the words "Anhydrous Ammonia, Inhalation Hazard" or "Ammoniac anhydride, dangereux par inhalation" must be displayed next to the placard in accordance with paragraph 4.18.2(b). SOR/2014-306
ERAP Index	: 500
Explosive Limit and Limited Quantity Index	: 0
Passenger Carrying Ship Index	: Forbidden
Excepted quantities (TDG)	: E0
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: Forbidden

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

Marine pollutant : Yes (IMDG only)



14.2. Transport information/DOT - USA

Department of Transport

DOT NA no. : UN1064

UN-No.(DOT) : 1064

Transport Document Description : UN1064 Methyl mercaptan, 2.3 (2.1)

Proper Shipping Name (DOT) : Methyl mercaptan
Methanethiol

Contains Statement Field Selection (DOT) :

Class (DOT) : 2.3 - Class 2.3 - Poisonous gas 49 CFR 173.115

Division (DOT) : 2.3

Hazard labels (DOT) : 2.3 - Poison gas
2.1 - Flammable gas



Dangerous for the environment : Yes

Marine pollutant : Yes



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.

B7 - Safety relief devices are not authorized on multi-unit tank car tanks. Openings for safety relief devices on multi-unit tank car tanks shall be plugged or blank flanged.
B9 - Bottom outlets are not authorized.

B14 - Each bulk packaging, except a tank car or a multi-unit-tank car tank, must be insulated with an insulating material so that the overall thermal conductance at 15.5 C (60 F) is no more than 1.5333 kilojoules per hour per square meter per degree Celsius (0.075 Btu per hour per square foot per degree Fahrenheit) temperature differential. Insulating materials must not promote corrosion to steel when wet.

N89 - When steel UN pressure receptacles are used, only those bearing the "H" mark are authorized.

T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : None

DOT Packaging Non Bulk (49 CFR 173.xxx) : 304

DOT Packaging Bulk (49 CFR 173.xxx) : 314;315

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

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

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.

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	: 117
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: - Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.
Other information	: No supplementary information available.

14.3. Air and sea transport

IMDG

UN-No. (IMDG)	: 1064
Proper Shipping Name (IMDG)	: METHYL MERCAPTAN
Transport Document Description (IMDG)	: UN 1064 METHYL MERCAPTAN, 2.3 (2.1), MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Class (IMDG)	: 2 - Gases
MFAG-No	: 117
Ship Safety Act	: Gases under pressure/Gases toxic under pressure(Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)
Port Regulation Law	: Hazardous materials/High pressure gas (Article 21, Paragraph 2 of Law, Article 12 rule, notice attached table that defines the type of dangerous goods)

IATA

UN-No. (IATA)	: 1064
Proper Shipping Name (IATA)	: Methyl mercaptan
Transport Document Description (IATA)	: UN 1064 Methyl mercaptan, 2.3 (2.1), ENVIRONMENTALLY HAZARDOUS
Class (IATA)	: 2
Civil Aeronautics Law	: Gases under pressure/Gases toxic under pressure(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)

SECTION 15: Regulatory information

15.1. National regulations

Methyl Mercaptan (Compressed) (74-93-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Methyl Mercaptan (Compressed) (74-93-1)

Listed on the AICS (Australian Inventory of Chemical Substances)
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory
Listed on NZIoC (New Zealand Inventory of Chemicals)
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Japanese Poisonous and Deleterious Substances Control Law
Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Date of issue	: 05/25/2017
Training advice	: Users of breathing apparatus must be trained. Ensure operators understand the flammability hazard. Ensure operators understand the toxicity hazard.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

Full text of H-statements:

H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated
H331	Toxic if inhaled

Methyl Mercaptan (Compressed)

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

SDS Canada (GHS)

THE INFORMATION, RECOMMENDATIONS AND DATA CONTAINED IN THIS DOCUMENT ARE INTENDED TO BE USED BY PROPERLY TRAINED AND QUALIFIED PERSONNEL ONLY AND AT THEIR SOLE RISKS AND DISCRETION. THE INFORMATION, RECOMMENDATIONS AND DATA HEREIN CONTAINED ARE DERIVED FROM SOURCES WHICH WE BELIEVE TO BE RELIABLE. HOWEVER, AIR LIQUIDE CANADA INC. MAKES NO REPRESENTATION AND GIVES NO WARRANTY OF ANY KIND WHATSOEVER WITH RESPECT TO THEIR ACCURACY OR COMPLETENESS AND ASSUMES NO LIABILITY FOR DAMAGES OR LOSS ARISING DIRECTLY OR INDIRECTLY FROM THEIR USE, WHETHER PROPER OR IMPROPER.