

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

according to GB/T 16483 and GB/T 17519

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

Product Name : Isopropyl Mercaptan  
Material : 1083608, 1029885, 1021450, 1028387, 1021451, 1027451,  
1021448, 1031054, 1021449

**Company** : Chevron Phillips Chemical Company LP  
Specialty Chemicals  
10001 Six Pines Drive  
The Woodlands, TX 77380

**Local** : Chevron Phillips Chemicals (Shanghai) Corporation  
Room 1810-1812, Shanghai Mart,  
2299 Yan An Road (W),  
Shanghai, PRC 200336  
Tel: (86-21) 22157200

**Emergency telephone:****Health:**

866.442.9628 (North America)  
1.832.813.4984 (International)

**Transport:**

CHEMTREC 800.424.9300 or 703.527.3887(int'l)  
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090  
Mexico CHEMTREC 01-800-681-9531 (24 hours)  
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600  
Argentina: +(54)-1159839431  
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)  
Belgium: 070 245 245 (24 hours/day, 7 days/week)  
Bulgaria: +359 2 9154 233  
Croatia: +3851 2348 342 (24 hours/day, 7 days/week)  
Cyprus: 1401  
Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402  
Denmark: Danish Poison Center (Giftlinjen): +45 8212 1212  
Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
Finland: 0800 147 111 09 471 977 (24 hours/day)  
France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)  
Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

Greece: (0030) 2107793777 (24 hours/day, 7 days/week)  
 Hungary: +36-80-201-199 (24 hours/day, 7 days/week)  
 Iceland: 543 2222 (24 hours/day, 7 days/week)  
 Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic  
 Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371  
 67042473. (24 hours.)  
 Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Lithuania: +370 (85) 2362052  
 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)  
 Malta: +356 2395 2000  
 The Netherlands: NVIC: +31 (0)88 755 8000  
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)  
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Portugal: CIAV phone number: +351 800 250 250  
 Romania: +40213183606  
 Slovakia: +421 2 5477 4166  
 Slovenia: Phone number: 112  
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24  
 hours/day, 7 days/week)  
 Sweden: 112 – ask for Poisons Information

Responsible Department : Product Safety and Toxicology Group  
 E-mail address : SDS@CPChem.com  
 Website : www.CPChem.com

**SECTION 2: Hazards identification****Classification of the substance or mixture**

**GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)**

**Emergency Overview****Danger**

**Form:** liquid    **Physical state:** liquid    **Color:** Clear    **Odor:** Repulsive

**Hazards** : Highly flammable liquid and vapor. May be harmful if swallowed. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

**Classification**


: Flammable liquids, Category 2  
 Acute toxicity, Category 5, Oral  
 Serious eye damage/eye irritation, Category 2A  
 Skin sensitization, Sub-category 1B  
 Specific target organ toxicity - single exposure, Category 3,  
 Narcotic effects  
 Aspiration hazard, Category 2  
 Short-term (acute) aquatic hazard, Category 1  
 Long-term (chronic) aquatic hazard, Category 1

**Labeling**

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

Symbol(s)	:	
Signal Word	:	Danger
Hazard Statements	:	<p>H225: Highly flammable liquid and vapor.  H303: May be harmful if swallowed.  H305: May be harmful if swallowed and enters airways.  H317: May cause an allergic skin reaction.  H319: Causes serious eye irritation.  H336: May cause drowsiness or dizziness.  H410: Very toxic to aquatic life with long lasting effects.</p>
Precautionary Statements	:	<p><b>Prevention:</b>  P210: Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  P233: Keep container tightly closed.  P240: Ground/bond container and receiving equipment.  P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.  P242: Use only non-sparking tools.  P243: Take precautionary measures against static discharge.  P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  P264: Wash skin thoroughly after handling.  P271: Use only outdoors or in a well-ventilated area.  P272: Contaminated work clothing should not be allowed out of the workplace.  P273: Avoid release to the environment.  P280: Wear protective gloves/ eye protection/ face protection.</p> <p><b>Response:</b>  P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.  P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  P312: Call a POISON CENTER/doctor if you feel unwell.  P331: Do NOT induce vomiting.  P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.  P337 + P313: If eye irritation persists: Get medical advice/ attention.  P362+P364: Take off contaminated clothing and wash it before reuse.  P370+P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  P391: Collect spillage.</p> <p><b>Storage:</b>  P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  P403 + P235: Store in a well-ventilated place. Keep cool.</p> <p><b>Disposal:</b></p>

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

P501: Dispose of contents/ container to an approved waste disposal plant.

**SECTION 3: Composition/information on ingredients**

Synonyms : 2-propanethiol  
IPM  
IC3SH

Molecular formula : C3H8S

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
Isopropyl Mercaptan	75-33-2	95 - 100
n-Propyl Mercaptan	107-03-9	1 - 5

**SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**Notes to physician**

Symptoms : No data available.

Risks : No data available.

Treatment : No data available.

**SECTION 5: Firefighting measures**

Flash point : -34°C (-29°F)  
estimated

Autoignition temperature : No data available

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	:	Sulfur.

**SECTION 6: Accidental release measures**

Personal precautions	:	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

**SECTION 7: Handling and storage****Handling**

Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with
-------------------------	---	---

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

**SECTION 8: Exposure controls/personal protection**

Not applicable

**Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

Respiratory protection : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as: Air-Purifying Respirator for Organic Vapors. A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

Eye protection	: Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

Form	: liquid
Physical state	: liquid
Color	: Clear
Odor	: Repulsive

**Safety data**

Flash point	: -34°C (-29°F) estimated
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Flammability (solid, gas)	:
Oxidizing properties	: yes
Autoignition temperature	: No data available
Molecular formula	: C3H8S
Molecular weight	: 90.2 g/mol
pH	: Not applicable
Pour point	: No data available
Boiling point/boiling range	: 51°C (124°F)
Vapor pressure	: 8.80 PSI at 37.8°C (100.0°F)
Relative density	: 0.82 at 15.6 °C (60.1 °F)
Water solubility	: slightly soluble
Partition coefficient: n-octanol/water	: No data available
Viscosity, dynamic	: 0.369 cP

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

Relative vapor density	: 2.62 (Air = 1.0)
Evaporation rate	: 1 estimated
Percent volatile	: > 99 %
Conductivity	: No data available

**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	: Stable under recommended storage conditions.
<b>Chemical stability</b>	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Possibility of hazardous reactions</b>	
<b>Hazardous reactions</b>	: Hazardous reactions: Hazardous polymerization does not occur.  Hazardous reactions: Vapors may form explosive mixture with air.
<b>Conditions to avoid</b>	: Heat, flames and sparks.
<b>Hazardous decomposition products</b>	: Sulfur
<b>Other data</b>	: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

<b>Isopropyl Mercaptan</b> <b>Acute oral toxicity</b>	: Acute toxicity estimate: 2,496 mg/kg Method: Calculation method
<b>Isopropyl Mercaptan</b> <b>Acute inhalation toxicity</b>	: Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
<b>Isopropyl Mercaptan</b> <b>Acute dermal toxicity</b>	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method



**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

**Isopropyl Mercaptan  
Skin irritation**: No skin irritation  
largely based on animal evidence.**Isopropyl Mercaptan  
Eye irritation**

: slight irritation. largely based on animal evidence.

**Isopropyl Mercaptan  
Sensitization**: The product is a skin sensitizer, sub-category 1B.  
largely based on animal evidence.**Repeated dose toxicity**

## Isopropyl Mercaptan

: Species: Rat, male and female  
Sex: male and female  
Application Route: Inhalation  
Exposure time: 13 wks  
Number of exposures: 6hrs/d, 5 d/wk  
NOEL: 0.367 mg/l 99.6 ppm  
Lowest observable effect level: 1.488 mg/l 403.4 ppm  
Method: OECD Test Guideline 413  
Target Organs: Liver, Kidney, Upper respiratory tract, Blood  
Information given is based on data obtained from similar  
substances.Species: Rat, male and female  
Sex: male and female  
Application Route: oral gavage  
Dose: 10, 50, 200 mg/kg bw/day  
Exposure time: 42-53 days  
Number of exposures: Daily  
NOEL: 50 mg/kg  
Lowest observable effect level: 200 mg/kg  
Method: OECD Guideline 422  
Target Organs: Liver, Blood  
Information given is based on data obtained from similar  
substances.Species: Rat, male and female  
Sex: male and female  
Application Route: Inhalation  
Exposure time: 13 wks  
Number of exposures: 6hrs/d, 5 d/wk  
NOEL: >= 196 ppm  
Method: OECD Test Guideline 413  
Target Organs: Kidney, Upper respiratory tract, Blood  
Information given is based on data obtained from similar  
substances.

## n-Propyl Mercaptan

Species: Rat, male and female  
Sex: male and female  
Application Route: Inhalation  
Dose: 9, 97, 196 ppm  
Exposure time: 13 wks  
Number of exposures: 6 hrs/d, 5 d/wk  
NOEL: 196 ppm  
Method: OECD Test Guideline 413  
Information given is based on data obtained from similar  
substances.

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

**Genotoxicity in vitro**

Isopropyl Mercaptan : Test Type: reverse mutation assay  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Mouse lymphoma assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 490  
Result: negative

Test Type: Micronucleus test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative

n-Propyl Mercaptan : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Cytogenetic assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative

Test Type: Mouse lymphoma assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Information given is based on data obtained from similar substances.

**Reproductive toxicity**

Isopropyl Mercaptan : Species: Rat  
Sex: male and female  
Application Route: oral gavage  
Dose: 10, 50, 200 mg/kg/bw  
Exposure time: 42 d  
Number of exposures: Daily  
Method: OECD Guideline 422  
NOAEL Parent:  $\geq$  200 mg/kg  
NOAEL F1: 50 mg/kg  
Information given is based on data obtained from similar substances.  
No adverse effects expected

**Developmental Toxicity**

Isopropyl Mercaptan : Species: Rat  
Application Route: Inhalation  
Dose: 11, 99, 195 ppm  
Exposure time: 6h/d  
Test period: GD 9 - 19  
Method: OECD Guideline 414

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

NOAEL Teratogenicity:  $\geq$  195 ppm  
 NOAEL Maternal:  $\geq$  195 ppm  
 Information given is based on data obtained from similar substances.

Species: Mouse  
 Application Route: Inhalation  
 Dose: 11, 99, 195 ppm  
 Exposure time: 6h/d  
 Test period: GD 9 - 19  
 Method: OECD Guideline 414  
 NOAEL Teratogenicity:  $\geq$  195 ppm  
 NOAEL Maternal:  $\geq$  195 ppm  
 Information given is based on data obtained from similar substances.

**Isopropyl Mercaptan  
Aspiration toxicity**

: May be harmful if swallowed and enters airways.

**CMR effects**

Isopropyl Mercaptan

: Carcinogenicity: Not available  
 Mutagenicity: In vitro tests did not show mutagenic effects  
 Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

n-Propyl Mercaptan

Carcinogenicity: Not available  
 Mutagenicity: In vitro tests did not show mutagenic effects  
 Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments., No toxicity to reproduction**Isopropyl Mercaptan  
Further information**

: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin.

**SECTION 12: Ecological information****Toxicity to fish**

Isopropyl Mercaptan

: LC50: 34 mg/l  
 Exposure time: 96 h  
 semi-static test Analytical monitoring: yes  
 Method: OECD Test Guideline 203  
 Information given is based on data obtained from similar substances.

n-Propyl Mercaptan

LC50: 1.3 mg/l  
 Exposure time: 96 h  
 Species: Pimephales promelas (fathead minnow)  
 semi-static test Analytical monitoring: yes  
 Test substance: yes  
 Method: OECD Test Guideline 203  
 Toxic to aquatic organisms.

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

**Toxicity to daphnia and other aquatic invertebrates**

Isopropyl Mercaptan : EC50: 0.25 - 0.5 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 static test Test substance: yes  
 Method: OECD Test Guideline 202

n-Propyl Mercaptan EC50: 70 µg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 Analytical monitoring: yes  
 Test substance: yes  
 Method: OECD Test Guideline 202  
 Very toxic to aquatic organisms.

**Toxicity to algae**

Isopropyl Mercaptan : ErC50: 21.9 mg/l  
 Exposure time: 72 h  
 Species: Pseudokirchneriella subcapitata (green algae)  
 static test Method: OECD Test Guideline 201

n-Propyl Mercaptan ErC50: 3 mg/l  
 Exposure time: 72 h  
 Species: Pseudokirchneriella subcapitata (algae)  
 Growth inhibition Method: OECD Test Guideline 201  
 Information given is based on data obtained from similar substances.

**M-Factor**

propane-2-thiol : M-Factor (Acute Aquat. Tox.) 1  
 M-Factor (Chron. Aquat. Tox.) 1

**M-Factor**

propane-1-thiol : M-Factor (Acute Aquat. Tox.) 10  
 M-Factor (Chron. Aquat. Tox.) 10

**Toxicity to bacteria**

Isopropyl Mercaptan : EC50: 880.5 mg/l  
 Exposure time: 3 h  
 Respiration inhibition  
 Method: OECD Test Guideline 209

n-Propyl Mercaptan EC50: 880.5 mg/l  
 Exposure time: 3 h  
 Respiration inhibition  
 Method: OECD Test Guideline 209  
 Information given is based on data obtained from similar substances.

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

**Biodegradability**

Isopropyl Mercaptan : aerobic  
 Result: Not readily biodegradable.  
 0 %  
 Testing period: 28 Days  
 Method: OECD Test Guideline 301D

n-Propyl Mercaptan : aerobic  
 Result: Not readily biodegradable.  
 17 %  
 Testing period: 28 Days  
 Method: OECD Test Guideline 301

**Bioaccumulation**

Isopropyl Mercaptan : Bioconcentration factor (BCF): 6  
 Method: QSAR modeled data  
 This material is not expected to bioaccumulate.

n-Propyl Mercaptan : Bioconcentration factor (BCF): 7.26  
 This material is not expected to bioaccumulate.

**Mobility**

Isopropyl Mercaptan : Method: Calculation, Mackay Level III Fugacity Model  
 The product will be dispersed amongst the various environmental compartments (soil/ water/ air).

n-Propyl Mercaptan : Method: Calculation, Mackay Level III Fugacity Model  
 The product will be dispersed amongst the various environmental compartments (soil/ water/ air).

**Results of PBT assessment**

Isopropyl Mercaptan : Non-classified PBT substance, Non-classified vPvB substance

n-Propyl Mercaptan : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information : Very toxic to aquatic life with long lasting effects.

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

**SECTION 13: Disposal considerations**

The information in this SDS pertains only to the product as shipped.

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

**Product** : The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

**Contaminated packaging** : Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

**SECTION 14: Transport information**

**The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).**

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**

UN2402, PROPANETHIOLS, 3, II

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN2402, PROPANETHIOLS, 3, II, (-34 °C c.c.), MARINE POLLUTANT, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN2402, PROPANETHIOLS, 3, II

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**

UN2402, PROPANETHIOLS, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**

33, UN2402, PROPANETHIOLS, 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**

UN2402, PROPANETHIOLS, 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

**Maritime transport in bulk according to IMO instruments****SECTION 15: Regulatory information**

Classification and Labeling of Commonly Used Dangerous Chemical Substances : Primary label: Combustible Liquid.

**Notification status**

Europe REACH : This product is in full compliance according to REACH regulation 1907/2006/EC.

United States of America (USA) TSCA : On or in compliance with the active portion of the TSCA inventory

Australia AIIC : On the inventory, or in compliance with the inventory

New Zealand NZIoC : On the inventory, or in compliance with the inventory

Japan ENCS : On the inventory, or in compliance with the inventory

Korea KECI : A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).

Philippines PICCS : On the inventory, or in compliance with the inventory

Taiwan TCSI : On the inventory, or in compliance with the inventory

China IECSC : On the inventory, or in compliance with the inventory

**SECTION 16: Other information****Further information**

Legacy SDS Number : 38500

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AIIC	Australian Inventory of Industrial Chemicals	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health

**Isopropyl Mercaptan**

Version 2.3

Revision Date 2023-10-11

CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate