

Version 2.5 Revision Date 2023-10-11

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 : See Company Address

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)

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)

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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 labelling according to JIS Z 7252-2019 and JIS Z 7253-2019 (GHS 2015)

Classification

Flammable liquids, Category 2 Skin sensitization, Sub-category 1B

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1

Labeling

Symbol(s) :







Signal Word : Danger

Hazard Statements : H225: Highly flammable liquid and vapor.

H317: May cause an allergic skin reaction.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P210: Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.
P241: Use explosion-proof electrical/ ventilating/ lighting/

equipment.

P242: Use non-sparking tools.

P243: Take action to prevent static discharges.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

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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.

Response:

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P333 + P313: If skin irritation or rash occurs: 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.

Storage:

P403 + P235: Store in a well-ventilated place. Keep cool.

Disposal:

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

Molocular formula . Correct					
Chemical name	CAS-No.	Concentration	ENCS/ISHL		
			number		
Isopropyl Mercaptan	75-33-2	95 % - 100%	2-464		
n-Propyl Mercaptan	107-03-9	1 % - 5%	2-464		

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.

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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

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.

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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 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

Engineering measures

Adequate ventilation to control airborned 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

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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.

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

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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

Relative vapor density : 2.62

(Air = 1.0)

Evaporation rate : 1

estimated

Percent volatile : > 99 %

Conductivity : No data available

SECTION 10: Stability and reactivity

Reactivity: Stable under recommended storage conditions.

Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Hazardous reactions: Hazardous polymerization does not

occur.

Hazardous reactions: Vapors may form explosive mixture with

air.

Conditions to avoid

Hazardous decomposition

products

: Heat, flames and sparks.

: Sulfur

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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Acute oral toxicity : Acute toxicity estimate: 2,496 mg/kg

Method: Calculation method

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Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

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Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

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Skin irritation : No skin irritation

largely based on animal evidence.

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Eye irritation

: slight irritation. largely based on animal evidence.

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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.

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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.

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

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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: >= 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
NOAEL Teratogenicity: >= 195 ppm
NOAEL Maternal: >= 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: >= 195 ppm
NOAEL Maternal: >= 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

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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.

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)

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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.)

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.

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

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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

: Very toxic to aquatic life.

Additional ecological

information

: Very toxic to aquatic life with long lasting effects.

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

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.

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.

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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)

Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information

National legislation

Poisonous and Deleterious Substances Control Law

: Not applicable

Industrial Safety and Health Law

Substances Subject to be

: Not applicable

Notified Names

Enforcement Order of the Industrial Safety and Health Law - Attached table 1

: Inflammable Substance

(Dangerous Substances) Enforcement Order of the Industrial Safety and Health

: Inflammable Substance

Law - Attached table 1 (Dangerous Substances)

Harmful Substances Required : Not applicable

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Permission for Manufacture

Hazardous Substances

Subject to Labeling

Requirements

Ordinance on Prevention of

Organic Solvent Poisoning Ordinance on Prevention of

Lead Poisoning

Harmful Substances

Prohibited from Manufacture

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Ordinance on Prevention of

Tetraalkyl Lead Poisoning

: Not applicable

: Not applicable

: Not applicable

• •

: Not applicable

: Not applicable

: Not applicable

Not applicable

: Not applicable

Substances Prevented From

Impairment of Health

: Not applicable

Listed

Chemical Substance Control Law

: Not applicable for Specified Chemical Substance, Monitoring Chemical Substance and Priority Assessment Chemical Substance.

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

: Not applicable

Other regulations

Fire Service Law : Flammable liquids

Type 1 petroleums Hazardous rank II

High Pressure Gas Safety Act : Not applicable

Explosive Control Law : Not applicable

Vessel Safety Law : Flammable liquids (Article 2 and 3 of rules on shipping and

storage of dangerous goods and its Attached Table 1)

Aviation Law : Flammable liquid (Article 194 of The Enforcement Rules of

Aviation Law and its Attached Table 1)

Notification status

TSCA

Europe REACH : This product is in full compliance according to REACH

regulation 1907/2006/EC.

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

TSCA inventory

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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	
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	

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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

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