

**N-Octyl Mercaptan**

Version 1.23

Revision Date 2024-05-30

MSDS number: AA00974-0000000143

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

Product Name : N-Octyl Mercaptan
Material : 1115893, 1086427, 1092079, 1089361, 1086426, 1021507,
1021501, 1021505, 1021503, 1021502, 1021508, 1021506,
1021504, 1024813, 1026777, 1036311, 1021509, 1035162,
1024812, 1033723

Recommended use of the product : Process regulators, used in vulcanization or polymerization processes
Restrictions on use : None known.

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

Address : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601, JEONGJAIL-RO,
BUNDANG-GU, SEONGNAMI-SI,
GYEONGGI-DO, 13557
SOUTH KOREA
Telephone no.: +612-9186-1132

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)

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

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: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;
 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
 Appointees : 회사명: 리이치24시코리아㈜.

주소: 서울특별시 강남구 강남대로 94길 34,4층

전화: +82-02-6245-1610

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

SECTION 2: Hazards identification**Hazard classification**

Standards for classification and labeling of chemical substances and material safety data sheet
(ministry of employment and labor public notice No. 2020-130)

Classification

- : Skin sensitization, Category 1
- Aspiration hazard, Category 2
- Short-term (acute) aquatic hazard, Category 1
- Long-term (chronic) aquatic hazard, Category 1

Warning label elements including precautionary statements

Symbol(s)



Signal Word

: Warning

Hazard Statements

- : H305: May be harmful if swallowed and enters airways.
- H317: May cause an allergic skin reaction.
- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements

- : **Prevention:**
 - P261: Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 - P273: Avoid release to the environment.
 - P280: Wear protective gloves.
- Response:**
 - P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
 - P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
 - P331: Do NOT induce vomiting.
 - P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.
 - P362 + P364: Take off contaminated clothing and wash it before reuse.
 - P391: Collect spillage.
- Disposal:**
 - P501: Dispose of contents and container according to wastes control act.

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

Other hazards which do not result in classification : None

SECTION 3: Composition/information on ingredients

Synonyms : 1-Octanethiol
NOM
normal-Octyl mercaptan
NC8SH

Molecular formula : C₈H₁₈S

Common name	Synonyms	CAS-No.	Concentration	KECI Number
n-Octyl Mercaptan	octane-1-thiol	111-88-6	98.5 % - 100%	KE-26627

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.

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.

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

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

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.

Other cautions for Doctors

Symptoms : No information available.

Risks : No information available.

Treatment : No information available.

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

SECTION 5: Firefighting measures

Flash point	: 69-71°C (156-160°F) at 101.325 kPa Method: EU Method A.9
Autoignition temperature	: No data available
Suitable extinguishing media	: Carbon dioxide (CO2).
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. Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	: Carbon oxides. Sulfur oxides.

SECTION 6: Accidental release measures

Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.
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). Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage**Handling**

Number:100000013889

5/18

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

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. Provide sufficient air exchange and/or exhaust in work rooms. 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. Keep away from open flames, hot surfaces and sources of ignition.

Secure storage

Requirements for storage areas and containers : No smoking. Keep in a 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.

Uses advised against : None known.

Specific Use : Process regulators, used in vulcanization or polymerization processes

SECTION 8: Exposure controls/personal protection**Chemical exposure standards, biological exposure standards, etc.**

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: 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-

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

purifying respirators may not provide adequate protection.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

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.

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:. Flame retardant protective clothing. 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

Physical state : liquid
Color : Colorless
Odor : Pungent
Odor Threshold : No data available

pH : Not applicable

Melting point/freezing point : No data available

Pour point : No data available

Boiling point/boiling range : 199°C (390°F)

Flash point : 69-71°C (156-160°F) at 101.325 kPa

Method: EU Method A.9

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Lower explosion limit : No data available

Number:100000013889

7/18

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

Upper explosion limit	: No data available
Vapor pressure	: 0.02 PSI at 37.8°C (100.0°F)
Solubility	: negligible
Relative density	: 0.8460 at 15 °C (59 °F) 0.8420 at 20 °C (68 °F) 0.8174 at 50 °C (122 °F)
Vapor density	: 1 (Air = 1.0)
Partition coefficient: n-octanol/water	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 1.04 mm ² /s at 40°C (104°F)
Molecular weight	: 146.32 g/mol

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 reactions: Hazardous polymerization does not occur.

Hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available**Hazardous decomposition products** : Carbon oxides
Sulfur oxides**Other data** : No decomposition if stored and applied as directed.**SECTION 11: Toxicological information****Information on exposure routes****Acute oral toxicity**n-Octyl Mercaptan : LD50: 2,436 mg/kg
Species: Rat
Sex: male and female
Method: Fixed Dose Method**Acute inhalation toxicity**n-Octyl Mercaptan : LC50: > 0.24 mg/l
Exposure time: 4 h
Species: Rat
Sex: male and female
Test atmosphere: vapor
Method: OECD Test Guideline 403
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.**Acute dermal toxicity**n-Octyl Mercaptan : LD50: > 1,680 mg/kg
Species: Rat
Sex: male and female
Method: OECD Test Guideline 402**N-Octyl Mercaptan****Skin corrosion or irritation** : slight irritation. largely based on animal evidence.**N-Octyl Mercaptan****Eye corrosion or irritation** : slight irritation. largely based on animal evidence.**N-Octyl Mercaptan****Respiratory Sensitization** : No data available**N-Octyl Mercaptan****Skin sensitization** May cause sensitization by skin contact.

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

Repeated dose toxicity

n-Octyl Mercaptan : Species: Rat, males
Sex: males
Application Route: Oral
Dose: 0, 10, 50, 250 mg/kg
Exposure time: 35 D
Number of exposures: once daily
NOEL: 50 mg/kg
Method: OECD Guideline 422

Species: Rat, females
Sex: females
Application Route: Oral
Dose: 0, 10, 50, 250 mg/kg
Number of exposures: once daily
NOEL: 50 mg/kg
Method: OECD Guideline 422

Germ cell mutagenicity (in vitro)

n-Octyl Mercaptan : Test Type: Reverse mutation assay
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Result: negative

Test Type: Sister chromatid exchange
Metabolic activation: with and without metabolic activation
Result: negative

Germ cell mutagenicity (in vivo)

n-Octyl Mercaptan : Test Type: Micronucleus test
Species: Mouse
Method: Mutagenicity (micronucleus test)
Result: negative

Developmental Toxicity

n-Octyl Mercaptan : Species: Rat
Application Route: Oral diet
Dose: 0, 10, 50, 250 mg/kg
Number of exposures: once daily
NOAEL Teratogenicity: 250 mg/kg

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

**Specific Target Organ
Toxicity (Single Exposure)**

Not classified due to data which are conclusive although insufficient for classification.

**Specific Target Organ
Toxicity (Repeated
Exposure)**

Not classified due to data which are conclusive although insufficient for classification.

Aspiration toxicity

n-Octyl Mercaptan : May be harmful if swallowed and enters airways.

CMR effects

n-Octyl Mercaptan : Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Teratogenicity: Animal testing did not show any effects on fetal development.
Reproductive toxicity: Animal testing did not show any effects on fertility.

Reproductive toxicity

n-Octyl Mercaptan : Species: Rat
Sex: male
Application Route: Oral diet
Dose: 0, 10, 50, 250 mg/kg
Exposure time: 35 D
Number of exposures: once daily
Method: OECD Guideline 422
NOAEL Parent: 250 mg/kg
NOAEL F1: 250 mg/kg

Species: Rat
Sex: female
Application Route: Oral diet
Dose: 0, 10, 50, 250 mg/kg
Number of exposures: once daily
Method: OECD Guideline 422
NOAEL Parent: 50 mg/kg
NOAEL F1: 250 mg/kg

N-Octyl Mercaptan

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

Further information : Solvents may degrease the skin.**SECTION 12: Ecological information**

Ecological Toxicity

Toxicity to fish

n-Octyl Mercaptan : LC50: 0.326 mg/l
Exposure time: 96 h
Species: Oryzias latipes (Orange-red killifish)
semi-static test Analytical monitoring: yes
Method: OECD Test Guideline 203
Very toxic to fish.

Toxicity to daphnia and other aquatic invertebrates

n-Octyl Mercaptan : 0.0243 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
Immobilization Analytical monitoring: yes
Method: OECD Test Guideline 202
Very toxic to aquatic organisms.

Toxicity to algae

n-Octyl Mercaptan : 0.039 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (microalgae)
semi-static test Analytical monitoring: yes
Method: OECD Test Guideline 201
Very toxic to algae.

M-Factor

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

n-Octyl Mercaptan : > 0.00467 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Toxic effects on fish and plankton

Persistence and degradability

n-Octyl Mercaptan : Result: Not readily biodegradable.
0 %
Testing period: 28 Days
Method: OECD Test Guideline 301

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

Information given is based on data obtained from similar substances.

Bioaccumulative

n-Octyl Mercaptan : Bioconcentration factor (BCF): 11.83
Method: QSAR modeled data

Mobility

n-Octyl Mercaptan : Medium: Soil
Method: Calculation, Mackay Level III Fugacity Model
This product may float or sink in water.

: Medium: Water
Method: Calculation, Mackay Level III Fugacity Model
This product may float or sink in water.

Other adverse effects : Very toxic to aquatic life with long lasting effects.

Ecotoxicology Assessment**Short-term (acute) aquatic hazard**

n-Octyl Mercaptan : Very toxic to aquatic life.

Long-term (chronic) aquatic hazard

n-Octyl Mercaptan : 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.

Disposal method : 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.

Disposal precaution : 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.

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

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.

UN Number	:	UN3082
UN Product Shipping Name	:	Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class	:	
Packing Group	:	III - Less Hazardous Properties
Marine Pollutant	:	Yes
Special Safety Measures on Mode of Transport	:	No data available

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NA1993, COMBUSTIBLE LIQUID, N.O.S., (N-OCTYL MERCAPTAN), III

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III, (69-71°C), MARINE POLLUTANT, (N-OCTYL MERCAPTAN)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III, (-)

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

MERCAPTAN), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-OCTYL MERCAPTAN), 9, III

Other information	:	9
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Maritime transport in bulk according to IMO instruments

SECTION 15: Regulatory information**National legislation****Regulation under the Occupational Safety and Health Act**

A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

Regulation		Chemical name	Threshold limits
Harmful Substances Prohibited from Manufacturing	:	Not applicable	
Harmful Substances Required Permission for Manufacture	:	Not applicable	

Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

Regulation		Chemical name	Threshold limits
Toxic Chemicals	:	Listed	
Prohibited Chemicals	:	Not applicable	
Restricted Chemicals	:	Not applicable	
Toxic Release Inventory	:	Not applicable	

Dangerous Substances Safety Management ActDangerous Substances : Flammable liquids, Type 2 petroleums, Water insoluble liquid
Safety Management Act

Flammable liquids, Type 2 petroleums, Water insoluble liquid

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

Regulations by the Waste Management Act : n-Octyl Mercaptan: Designated Waste

Regulations by other domestic and foreign laws

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

Switzerland CH INV : On the inventory, or in compliance with the inventory

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

Canada DSL : All components of this product are on the Canadian DSL

Other AICS : 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 : All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.

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

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

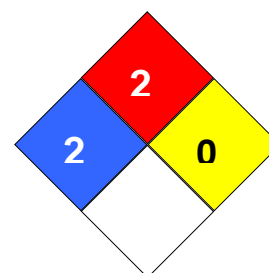
Taiwan TCSI : On the inventory, or in compliance with the inventory

Other regulations : No data available

SECTION 16: Other information

Source of data	:	Korea. GHS based classification
Date of initial writing	:	2024-05-30
Revision number	:	2
Last revision date	:	2029-05-30

NFPA Classification : Health Hazard: 2
Fire Hazard: 2
Reactivity Hazard: 0

**Other information**

Number:100000013889

16/18

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

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
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

N-Octyl Mercaptan

Version 1.23

Revision Date 2024-05-30

LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate
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