

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

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

Product information

Product Name : n-Dodecyl Methyl Sulfide

Material : 1118938, 1118937, 1118936, 1112338, 1024620, 1024619,

1024618, 1024621, 1033592, 1032971, 1027476, 1024833

Company : Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:sds@cpchem.com

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: +800 CHEMCALL (+800 2436 2255) China:+86-21-22157316 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Mexico CHEMTREC 01-800-681-9531 (24 hours)

South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

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

SDS Number:100000014166 1/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

REGULATION (EC) No 1272/2008

Skin sensitization, Category 1 H317:

May cause an allergic skin reaction.

Acute aquatic toxicity, Category 1 H400:

Very toxic to aquatic life.

Chronic aquatic toxicity, Category 1 H410:

Very toxic to aquatic life with long lasting effects.

Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms



H410



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

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:

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.

Hazardous ingredients which must be listed on the label:

• 3698-89-3 n-Dodecyl Methyl Sulfide

SECTION 3: Composition/information on ingredients

Synonyms : Methyl n-Dodecyl Sulfide

DDMS

Molecular formula : C13H28S

Mixtures

Hazardous ingredients

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC) No	[wt%]
	Index No.	1272/2008)	
n-Dodecyl Methyl Sulfide	3698-89-3	Skin Sens. 1B; H317	95 - 99

SDS Number:100000014166 2/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

223-028-7 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

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.

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.

SECTION 5: Firefighting measures

Flash point : 142 °C (288 °F)

Method: PMCC estimated

Autoignition temperature : No data available

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.

Fire and explosion

protection

: Normal measures for preventive fire protection.

SECTION 6: Accidental release measures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation.

SDS Number:100000014166 3/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Keep in suitable, closed

containers for disposal.

SECTION 7: Handling and storage

Handling

Advice on safe handling : 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. 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

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers

: 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 : Wear a supplied-air NIOSH approved respirator unless

ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may

occur, such as:. Use a positive pressure, air-supplying

SDS Number:100000014166 4/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where airpurifying 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 : Colorless to light yellow

Odor : pungent

Safety data

Flash point : 142 °C (288 °F)

Method: PMCC estimated

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : C13H28S

Molecular weight : 216,47 g/mol

pH : No data available

Freezing point : No data available

Boiling point/boiling range : 294 - 315 °C (561 - 599 °F)

SDS Number:100000014166 5/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

Vapor pressure : No data available

Relative density : 0,835

at 20 °C (68 °F)

Water solubility : insoluble

Viscosity, dynamic : 3,71 cP

Relative vapor density : No data available

Evaporation rate : No data available

SECTION 10: Stability and reactivity

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

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Conditions to avoid : No data available.

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

SECTION 11: Toxicological information

Acute oral toxicity

n-Dodecyl Methyl Sulfide : LD50: > 2.000 mg/kg

Species: Rat Sex: female

Method: OECD Test Guideline 425

Skin irritation

n-Dodecyl Methyl Sulfide : slight irritation.

Eye irritation

n-Dodecyl Methyl Sulfide : slight irritation.

Sensitization

n-Dodecyl Methyl Sulfide : The product is a skin sensitizer, sub-category 1B.

Aspiration toxicity

n-Dodecyl Methyl Sulfide : May be harmful if swallowed and enters airways.

n-Dodecyl Methyl Sulfide

Further information : Solvents may degrease the skin.

SDS Number:100000014166 6/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

SECTION 12: Ecological information

Toxicity to fish

n-Dodecyl Methyl Sulfide : LC50: 0,115 mg/l

Exposure time: 96 h Species: Fish

Method: QSAR modeled data

Toxicity to daphnia and other aquatic invertebrates

n-Dodecyl Methyl Sulfide : EC50: 0,028 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

Method: QSAR modeled data

M-Factor

dodecyl methyl sulphide : 10

Biodegradability

n-Dodecyl Methyl Sulfide : Expected to be inherently biodegradable.

Information given is based on data obtained from similar

substances.

Ecotoxicology Assessment

Acute aquatic toxicity

n-Dodecyl Methyl Sulfide : Very toxic to aquatic life.

Chronic aquatic toxicity

n-Dodecyl Methyl Sulfide : Very toxic to aquatic life with long lasting effects.

Results of PBT assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Additional ecological

information

: 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

SDS Number:100000014166 7/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers.

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)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL METHYL SULFIDE), 9, III, MARINE POLLUTANT, (N-DODECYL METHYL SULFIDE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL METHYL SULFIDE), 9, III, (142 °C), MARINE POLLUTANT, (N-DODECYL METHYL SULFIDE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3334, AVIATION REGULATED LIQUID, N.O.S., (N-DODECYL METHYL SULFIDE), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL METHYL SULFIDE), 9, III, (E)

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL METHYL SULFIDE), 9, III

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

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (N-DODECYL METHYL SULFIDE), 9, III

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

SDS Number:100000014166 8/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

Major Accident Hazard

Legislation

: 96/82/EC Update: Dangerous for the environment

9a

Quantity 1: 100 t Quantity 2: 200 t

Water contaminating class

(Germany)

: WGK 3 highly water endangering

Notification status

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

United States of America (USA) : On TSCA Inventory

TSCA

Canada NDSL : On the inventory, or in compliance with the inventory

Australia AICS : Not in compliance with the inventory New Zealand NZIoC : Not in compliance with the inventory

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

Notification number: 2-(12)-171

Korea KECI : On the inventory, or in compliance with the inventory

Notification number: KE-12991

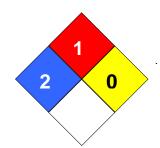
Philippines PICCS : On the inventory, or in compliance with the inventory

China IECSC : Not in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 2

Fire Hazard: 1 Reactivity Hazard: 0



Further information

Legacy SDS Number : 248840

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.

LD50	Lethal Dose 50%
LOAEL	Lowest Observed Adverse Effect Level
	LOAEL

SDS Number:100000014166 9/10

n-Dodecyl Methyl Sulfide

Version 2.4 Revision Date 2017-01-24

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	PICCS	Philippines Inventory of
	Chemical Substances		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%		

Full text of H-Statements referred to under sections 2 and 3.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

SDS Number:100000014166 10/10