

Version 1.9 Revision Date 2022-07-19

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 : Tertiary Butyl Mercaptan

Material : 1069500, 1086416, 1086415, 1070007, 1064730, 1021473,

1021470, 1017940, 1036143, 1024807, 1021472, 1021471, 1024806, 1021469, 1028495, 1021474, 1027458, 1029711,

1017329, 1021468

Use : Chemical intermediate, Odorant

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)

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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)

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 eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life

with long lasting effects.

#### Classification

: Flammable liquids, Category 2 Acute toxicity, Category 5, Oral

Serious eye damage/eye irritation, Category 2B

Skin sensitization, Category 1

Specific target organ toxicity - single exposure, Category 3,

Narcotic effects

Aspiration hazard, Category 2

Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 2

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#### Labeling

Symbol(s) :









Signal Word : Danger

Hazard Statements : 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.

H320: Causes eye irritation.

H336: May cause drowsiness or dizziness.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention**:

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.

Response:

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.

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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 + P233: Store in a well-ventilated place. Keep container

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tightly closed.

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

P405: Store locked up.

Disposal:

P501: Dispose of contents/ container to an approved waste

disposal plant.

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

Synonyms : t-Butyl Mercaptan

tert-Butanethiol

2-Methyl Propane-2-Thiol

TBM TC4SH

tert-Butyl Mercaptan

Molecular formula : C4H10S

Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
t-Butyl Mercaptan	75-66-1	99 - 100

#### **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 : Immediately flush eye(s) with plenty of water. 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 : -26°C (-15°F)

estimated

Autoignition temperature : No data available

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

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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

: Carbon oxides. Sulfur oxides.

## **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 local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or

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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.

Use : Chemical intermediate, Odorant

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

#### Ingredients with workplace control parameters

Chevron Phillips Chemical Company LP

Components	Basis	Value	Control parameters	Note	
t-Butyl Mercaptan	Manufacturer	TWA	0.5 ppm,		
CN					
Components	Basis	Value	Control parameters	Note	

Not applicable

## **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:. Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator 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

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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 : -26°C (-15°F)

estimated

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : No data available

Molecular formula : C4H10S

Molecular weight : 90.2 g/mol

pH : Not applicable

Pour point : No data available

Boiling point/boiling range : 63-65°C (145-149°F)

Vapor pressure : 5.90 PSI

at 38°C (100°F)

Relative density : 0.81

at 16 °C (61 °F)

Water solubility : negligible

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Partition coefficient: n-

octanol/water

: No data available

Relative vapor density

· 3

(Air = 1.0)

Evaporation rate : 1

Percent volatile : > 99 %

#### **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

Hazardous decomposition

products

: Heat, flames and sparks.

: Carbon oxides Sulfur oxides

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

#### **SECTION 11: Toxicological information**

**Acute oral toxicity** 

t-Butyl Mercaptan : LD50: 4,729 mg/kg

Species: Rat Sex: male

Acute inhalation toxicity

t-Butyl Mercaptan : LC50: 98.3 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female Test atmosphere: vapor

Method: OECD Test Guideline 403

LC50: 81.9 mg/l

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Exposure time: 4 h Species: Rat Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

LC50: 60.9 mg/l Exposure time: 4 h Species: Mouse Sex: male

Test atmosphere: vapor

Method: OECD Test Guideline 403

**Acute dermal toxicity** 

t-Butyl Mercaptan : LD50: > 2,000 mg/kg

Species: Rabbit

Skin irritation

t-Butyl Mercaptan : No skin irritation

Eye irritation

t-Butyl Mercaptan : Mild eye irritation

Sensitization

t-Butyl Mercaptan : The product is a skin sensitizer, sub-category 1B.

Repeated dose toxicity

t-Butyl 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

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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 bw/day

Lowest observable effect level: 200 mg/kg bw/day

Method: OECD Guideline 422

Species: Rat, Male and female

Sex: Male and female Application Route: Inhalation Dose: 25.1, 99.6, 403.4 ppm Exposure time: 13 wks

Number of exposures: 6 hrs/d, 5 d/wk

NOEL: 99.6 ppm

Lowest observable effect level: 403.4 ppm

Method: OECD Guideline 413

Target Organs: Liver, Kidney, Blood, Upper respiratory tract Information given is based on data obtained from similar

substances.

#### Genotoxicity in vitro

t-Butyl Mercaptan : Test Type: Ames test

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 476

Result: negative

Test Type: Sister Chromatid Exchange Assay

Metabolic activation: with and without metabolic activation

Result: negative

#### Genotoxicity in vivo

t-Butyl Mercaptan : Test Type: Mouse micronucleus assay

Species: Mouse

Dose: 1250, 2500, 5000 mg/kg Method: OECD Test Guideline 474

Result: negative

#### Reproductive toxicity

t-Butyl Mercaptan : Species: Rat

Sex: male and female

Application Route: oral gavage Dose: 10, 50, 200 mg/kg bw/day Number of exposures: Daily Test period: 42 -53 days Method: OECD Guideline 422 NOAEL Parent: 200 mg/kg bw/day NOAEL F1: 50 mg/kg bw/day

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No adverse effects expected

#### **Developmental Toxicity**

t-Butyl Mercaptan : Species: Mouse

Application Route: Inhalation
Dose: 11, 99, 195 ppm
Exposure time: GD 6-16
Number of exposures: 6 hrs/d
NOAEL Teratogenicity: > = 195 ppm
NOAEL Maternal: > = 195 ppm

Species: Rat

Application Route: Inhalation
Dose: 11, 99, 195 ppm
Exposure time: GD6-19
Number of exposures: 6 hrs/d
NOAEL Teratogenicity: > =195 ppm
NOAEL Maternal: > = 195 ppm

Species: Rat

Application Route: oral gavage Dose: 10, 50, 200 mg/kg bw/day Exposure time: 42-53 days Number of exposures: Daily

NOAEL Teratogenicity: 50 mg/kg bw /day NOAEL Maternal: 200 mg/kg bw /day

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Aspiration toxicity

: May be harmful if swallowed and enters airways.

**CMR** effects

t-Butyl Mercaptan : Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo 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.

Tertiary Butyl Mercaptan Further information

: Symptoms of overexposure are dizziness, headache,

tiredness, nausea, unconsciousness, cessation of breathing.

Solvents may degrease the skin.

#### **SECTION 12: Ecological information**

## Toxicity to fish

t-Butyl Mercaptan : LC50: 34 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203

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#### Toxicity to daphnia and other aquatic invertebrates

t-Butyl Mercaptan : EC50: 6.7 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

t-Butyl Mercaptan : EC50: 24 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Biodegradability

t-Butyl Mercaptan : aerobic

Result: Not readily biodegradable.

6 %

Testing period: 63 d

Method: OECD Test Guideline 301

Bioaccumulation

t-Butyl Mercaptan : Bioconcentration factor (BCF): 12

Method: QSAR modeled data

This material is not expected to bioaccumulate.

Mobility

t-Butyl 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

t-Butyl Mercaptan : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological

information

: Toxic to aquatic life with long lasting effects.

**Ecotoxicology Assessment** 

Short-term (acute) aquatic hazard

t-Butyl Mercaptan : Toxic to aquatic life.

Long-term (chronic) aquatic hazard

t-Butyl Mercaptan : Toxic to aquatic life with long lasting effects.

#### **SECTION 13: Disposal considerations**

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

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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)**

UN2347, BUTYL MERCAPTAN, 3, II

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

UN2347, BUTYL MERCAPTAN, 3, II, (-26 °C c.c.), MARINE POLLUTANT, (TERTIARY BUTYL MERCAPTAN)

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN2347, BUTYL MERCAPTAN, 3, II

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

UN2347, BUTYL MERCAPTAN, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (TERTIARY BUTYL MERCAPTAN)

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

33,UN2347,BUTYL MERCAPTAN, 3, II, ENVIRONMENTALLY HAZARDOUS, (TERTIARY BUTYL MERCAPTAN)

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

UN2347, BUTYL MERCAPTAN, 3, II, ENVIRONMENTALLY HAZARDOUS, (TERTIARY BUTYL MERCAPTAN)

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#### 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.

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

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

TSCA TSCA inventory

Other 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 : 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 Taiwan TCSI : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

Other regulations : Law on the Prevention and Control of Occupational

Diseases

#### **SECTION 16: Other information**

#### **Further information**

Legacy SDS Number : 95900

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	LD50	Lethal Dose 50%	
	Government Industrial Hygienists			
AICS	Australia, Inventory of Chemical	LOAEL	Lowest Observed Adverse Effect	
	Substances		Level	

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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
LC50	Lethal Concentration 50%		

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