SAFETY DATA SHEET



Tertiary Butyl Mercaptan

Version 1.10

Revision Date 2024-04-30

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 Material	:	Tertiary Butyl Mercaptan 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 (Nort 1.832.813.4984 (Int		
Transport: CHEMTREC 800.42	24 9300 oi	703 527 3887(int'l)
Asia: CHEMWATCH	H (+612 91	186 1132) China: 0532 8388 9090
		581-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-11		5 (phone) or +32.14583516 (telefax)
Austria: VIZ +43 1 4	406 43 43	(24 hours/day, 7 days/week)
Belgium: 070 245 2 Bulgaria: +359 2 91		urs/day, 7 days/week)
Croatia: +3851 234		hours/day, 7 days/week)
Cyprus: 1401 Czech Republic: To	xicologica	I Information Center +420 224 919 293, +420 224 915 402
Denmark: Danish P	oison Cen	ter (Giftlinjen): +45 8212 1212 (phone) or +32.14583516 (telefax)
S Number:10000001335	6	1/15

SAFETY DATA SHEET

Tertiary Butyl Mercaptan

977 (24 hours/day)): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) phone) or +32.14583516 (telefax) 4 hours/day, 7 days/week) ours/day, 7 days/week) y, 7 days/week)
phone) or +32.14583516 (telefax) 4 hours/day, 7 days/week) ours/day, 7 days/week) y, 7 days/week)
hours/day, 7 days/week) ours/day, 7 days/week) y, 7 days/week)
ours/day, 7 days/week) y, 7 days/week)
y, 7 days/week)
one) or +32.14583516 (telefax)
 Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02
ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia
DISON CENTER ROME – Ospedale Pediatrico Bambino Gesù
CENTER ROME – Policlinico "Umberto I" Tel. +39 06 4997 80
zienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326
zienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870
– Azienda Ospedaliera universitaria Careggi Tel. +39 055
AVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382
GAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800
NA – Azienda Ospedaliera Universitaria integrata Tel. 800 011
ervice, phone number: 112; Toxicology and Sepsis Clinic
n Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +3
45 (phone) or +32.14583516 (telefax)
(24 hours/day, 7 days/week)
(, , , ,, ,
88 755 8000
day, 7 days/week)
one) or +32.14583516 (telefax)
+351 800 250 250
ephone Number of Spanish Poison Centre: +34 91 562 04 20 (2
Information
Iraduat Safaty and Taviaalagy Orayn
roduct Safety and Toxicology Group DS@CPChem.com
ww.CPChem.com

(GHS 2011)

Emergency Overview

Form: liquid	Physical state: liqui	d Color: clear	Odor: Repulsive
Hazards	Ca cau and	uses eye irritation use drowsiness or	uid and vapor. May be harmful if swallowed. . May cause an allergic skin reaction. May dizziness. May be harmful if swallowed Toxic to aquatic life. Toxic to aquatic life cts.
Classification			
S Number:1000	0013356		2/15

rtiary Butyl Mercapta	SAFETY DATA SHE
rsion 1.10	Revision Date 2024-04
	 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
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. P333 + P313: If skin irritation or rash occurs: Get medical

tiary Butyl Merca	otan		SAFETY DATA SH
sion 1.10	ptan		Revision Date 2024-0
	attentic P362+I before P370+I alcohol P391: Storag P403 + tightly o P403 + P405: Dispos P501:	on. P364: Take off contaminate reuse. P378: In case of fire: Use dr I-resistant foam to extinguish. Collect spillage. Je: - P233: Store in a well-ventila closed. - P235: Store in a well-ventila Store locked up.	ts: Get medical advice/ d clothing and wash it ry sand, dry chemical or ated place. Keep contair ated place. Keep cool.
TION 3: Composition/info	: t-Butyl M tert-Buta	lercaptan	
Molecular formula	TC4SH tert-Butyl : C4H10S		
Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]
t-Butyl Mercaptan		75-66-1	99 - 100
TION 4: First aid measur	es		
General advice	sheet to	t of dangerous area. Show this the doctor in attendance. Mate potentially fatal pneumonia if s	erial may produce a
lf 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	n, rinse well with water. If on cl	othes, 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.		
	an uncor	spiratory tract clear. Never given nscious person. If symptoms p tim immediately to hospital.	
If swallowed	I ake vic		
If swallowed Iotes to physician		im inmediately to nospital.	

rtiary Butyl Mercapt	SAFETY DATA S	SHI
sion 1.10	Revision Date 2024	-04
Symptoms	: No data available.	
Risks	: No data available.	
Treatment	: No data available.	
TION 5: Firefighting measu	es	
Flash point	: -26°C (-15°F) estimated	
Autoignition temperature	: No data available	
Suitable extinguishing media	: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemica	al.
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 ir 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.	n
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, h surfaces and sources of ignition.	
Hazardous decomposition products	: Carbon oxides. Sulfur oxides.	
TION 6: Accidental release	neasures	
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.	N
Environmental precautions	: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates river 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,	
Number:100000013356	5/15	

SAFETY DATA SHEET

Version 1.10

Revision Date 2024-04-30

vermiculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7: Handling and storage

На	ndling	
Adv	vice 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.
	vice on protection : ainst 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.
Sto	orage	
	quirements for storage : eas 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	e :	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

SDS Number:100000013356

rtiary Butyl Mercap	tan	SAFETY DATA SHE
sion 1.10		Revision Date 2024-04
Respiratory protection	m re ai pi R su u kr	ventilation or other engineering controls are not adequate to naintain minimal oxygen content of 19.5% by volume under ormal atmospheric pressure, a supplied-air NIOSH approved espirator may be appropriate. If exposure to harmful levels of irborne material may occur, a NIOSH approved respirator that rovides protection may be appropriate, such as:. Air-Purifying espirator for Organic Vapors. A positive pressure, air- upplying respirator may be appropriate if there is potential for ncontrolled release, aerosolization, exposure levels are not nown, or other circumstances where air-purifying respirators hay not provide adequate protection.
Hand protection	w th w co pr co	he suitability for a specific workplace should be discussed ith the producers of the protective gloves. Please observe he instructions regarding permeability and breakthrough time hich are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the roduct 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	: E	ye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	co sp co	hoose body protection in relation to its type, to the oncentration and amount of dangerous substances, and to the pecific work-place. Wear as appropriate:. Remove and wash ontaminated clothing before re-use. Skin should be washed fter contact. Footwear protecting against chemicals.
Hygiene measures		/hen using do not eat or drink. When using do not smoke. /ash hands before breaks and at the end of workday.
TION 9: Physical and che	mical pr	roperties
Information on basic phy	sical an	id chemical properties
Appearance		
Form		iquid
Physical state		iquid
Color Odor		clear Repulsive
Odor Threshold		No data available
Safety data		
-		
Flash point		-26°C (-15°F) estimated
Lower explosion limit	: 1	No data available
Upper explosion limit	: 1	No data available
Flammability (solid, gas) Oxidizing properties	: : N	No
Flammability (solid, gas)	: : N	No 7/15

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ersion 1.10		Revision Date 2024-04-30
Autoignition temperature	: No data available	
Molecular formula	: C4H10S	
Molecular weight	: 90.2 g/mol	
рН	: Not applicable	
Pour point	: No data available	
Melting point/freezing 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	
Partition coefficient: n- octanol/water	: No data available	
Relative vapor density	: 3 (Air = 1.0)	
Evaporation rate	: 1	
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 rea	actions		
Hazardous reactions	: Hazardous reactions: Hazardous polymerization does not occur.		
	Hazardous reactions: Vapors may form explosive mixture with air.		
Conditions to avoid Hazardous decomposition	: Heat, flames and sparks. : Carbon oxides		
SDS Number:100000013356	8/15		

ertiary Butyl Mercapta	SAFETY DATA SHEE
ersion 1.10	Revision Date 2024-04-3
products	Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
ECTION 11: Toxicological infor	mation
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 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
	inconclusive
Sensitization	
t-Butyl Mercaptan	: The product is a skin sensitizer, sub-category 1B.
	9/15

Version 1.10

Revision Date 2024-04-30

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 	
	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		

SAFETY DATA SHEET Tertiary Butyl Mercaptan Version 1.10 Revision Date 2024-04-30 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 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 **Tertiary Butyl Mercaptan** Aspiration toxicity : May be harmful if swallowed and enters airways. **Toxicology Assessment Tertiary Butyl Mercaptan CMR** effects Carcinogenicity: Not available 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. **Tertiary Butyl Mercaptan Further information** Symptoms of overexposure are dizziness, headache, : tiredness, nausea, unconsciousness, cessation of breathing. Solvents may degrease the skin. SDS Number:100000013356 11/15

Version 1.10

SAFETY DATA SHEET

Revision Date 2024-04-30

TION 12: Ecological informat				
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			
Toxicity to daphnia and othe	r 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 Ecotoxicology Assessment	: Toxic to aquatic life with long lasting effects.			
Number:100000013356	12/15			

Revision Date 2024-04-30

Version 1.10

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.

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)

SDS Number:100000013356

13/15

Version 1.10

Revision Date 2024-04-30

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE)) 33,UN2347,BUTYL MERCAPTAN, 3, II, ENVIRONMENTALLY HAZARDOUS, (TERTIARY BUTY				
MÉRCAPTÁN)				
	CONCERNING THE INTERNATIONAL CARRIAGE			
OF DANGEROUS GOODS BY IN UN2347. BUTYL MERCAPTAN	L AND WATERWAYS) I, 3, II, ENVIRONMENTALLY HAZARDOUS, (TERTIARY BUTYL			
MERCAPTAN)	, , , , , . ,			
Maritime transport in bulk accor	ding 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) TSCA	: On or in compliance with the active portion of the TSCA inventory			
Australia AIIC	: On the inventory, or in compliance with the inventory			
New Zealand NZIoC Japan ENCS Korea KECI	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 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 China IECSC	On the inventory, or in compliance with the inventoryOn 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 : 9	5900			
	· · · · · · · · · · · · · · · · · ·			
Significant changes since the last v	version are highlighted in the margin. This version replaces all			
previous versions.				
	as only to the product as shipped.			

SAFETY DATA SHEET

Tertiary Butyl Mercaptan

Version 1.10

Revision Date 2024-04-30

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.

k	Key or legend to abbreviations and a	cronyms use	d 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
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate