SAFETY DATA SHEET



n-Butyl Mercaptan

Version 1.11

Revision Date 2022-10-12

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	 n-Butyl Mercaptan 1125995, 1078953, 1021482, 1021487, 1021492, 1021491, 1021490, 1021489, 1021488, 1021483, 1021481, 1024804, 1024805, 1021486, 1021485, 1027453
Use	: Chemical intermediate
Company	: Chevron Phillips Chemical Company LP 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
Asia: CHEMWATCH Mexico CHEMTREC South America SOS Argentina: +(54)-119 EUROPE: BIG +32. Austria: VIZ +43 1 4 Belgium: 070 245 24 Bulgaria: +359 2 919 Croatia: +359 2 919 Croatia: +3851 2348 Cyprus: 1401 Czech Republic: To: Denmark: Danish Pe Estonia: BIG +32.14 Finland: 0800 147 1	h America) ernational) 24.9300 or 703.527.3887(int'l) H (+612 9186 1132) China: 0532 8388 9090 C 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 59839431 14.584545 (phone) or +32.14583516 (telefax) 406 43 43 (24 hours/day, 7 days/week) 45 (24 hours/day, 7 days/week)
DS Number:10000001339	4 1/14

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Greece: (0		(phone) or +32.14583516 (telefax)
Greece: (0		
	030) 2107793777 (2	24 hours/day, 7 days/week)
Hundary: +		hours/day, 7 days/week)
	3 2222 (24 hours/da	
		hone) or +32.14583516 (telefax)
		ne) or +32.14583516 (telefax)
		Service, phone number: 112; Toxicology and Sepsis Clinic
		on Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +3
	(24 hours.)	
	. ,	545 (phone) or +32.14583516 (telefax)
	-370 (85) 2362052	
		0 (24 hours/day, 7 days/week)
	6 2395 2000	
	lands: NVIC: +31 (0))88 755 8000
		s/day, 7 days/week)
		hone) or +32.14583516 (telefax)
		: +351 800 250 250
	-40213183606	
	421 2 5477 4166	
	Phone number: 112	
		elephone Number of Spanish Poison Centre: +34 91 562 04 20 (2
	7 days/week)	
	12 – ask for Poisons	s Information
		Product Safety and Toxicology Group
E-mail addres		SDS@CPChem.com
Website	:	www.CPChem.com
Classification	rds identification	
Classification GHS Classifie	of the substance	
Classification	of the substance	
Classification GHS Classific (GHS 2011)	of the substance cation and Labeling	
Classification GHS Classific (GHS 2011) Emergency O	of the substance cation and Labeling	
Classification GHS Classific (GHS 2011) Emergency Or Danger	of the substance cation and Labeling verview	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.
Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid	of the substance cation and Labeling verview Physical state: liq	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.
Classification GHS Classific (GHS 2011) Emergency Or Danger	n of the substance cation and Labeling verview Physical state: liq : H	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. Juid Color : Clear Odor : Repulsive Highly flammable liquid and vapor. Harmful if swallowed.
Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid	of the substance cation and Labelin verview Physical state: liq : H	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. Juid Color : Clear Odor : Repulsive Highly flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. May cause an
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Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid Hazards	n of the substance cation and Labeling verview Physical state: liq : H H a u r b a	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. quid Color: Clear Odor: Repulsive Highly flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the inborn child. May cause damage to organs. May cause espiratory irritation., May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Very toxic to iquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Acute toxicity, Category 4, Oral
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Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid Hazards	n of the substance cation and Labeling verview Physical state: liq : H H a u r b a	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. Juid Color: Clear Odor: Repulsive Highly flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause espiratory irritation., May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Serious eye damage/eye irritation, Category 2A
Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid Hazards	n of the substance cation and Labeling verview Physical state: liq : H H a u r b a	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. Juid Color: Clear Odor: Repulsive Highly flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause espiratory irritation., May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Serious eye damage/eye irritation, Category 2A Skin sensitization, Category 1
Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid Hazards	n of the substance cation and Labeling verview Physical state: liq : H H a u r b a	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. Juid Color: Clear Odor: Repulsive Highly flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. May cause an ullergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause espiratory irritation., May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Serious eye damage/eye irritation, Category 2A Skin sensitization, Category 1 Reproductive toxicity, Category 2
Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid Hazards	n of the substance cation and Labeling verview Physical state: liq : H H a u r b a	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. Juid Color: Clear Odor: Repulsive Highly flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. May cause an Allergic skin reaction. Suspected of damaging fertility or the Inborn child. May cause damage to organs. May cause espiratory irritation., May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Very toxic to inquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Serious eye damage/eye irritation, Category 2A Skin sensitization, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - single exposure, Category 2
Classification GHS Classific (GHS 2011) Emergency Or Danger Form: liquid Hazards	n of the substance cation and Labeling verview Physical state: liq : H H a u r b a	g: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000. Juid Color: Clear Odor: Repulsive Highly flammable liquid and vapor. Harmful if swallowed. Harmful if inhaled. Causes serious eye irritation. May cause an ullergic skin reaction. Suspected of damaging fertility or the unborn child. May cause damage to organs. May cause espiratory irritation., May cause drowsiness or dizziness. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Serious eye damage/eye irritation, Category 2A Skin sensitization, Category 1 Reproductive toxicity, Category 2

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	Aspiration hazard, Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1
Labeling	
Symbol(s)	
Signal Word	: Danger
Hazard Statements	 H225: Highly flammable liquid and vapor. H302 + H332: Harmful if swallowed or if inhaled. H305: May be harmful if swallowed and enters airways. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H361: Suspected of damaging fertility or the unborn child. H371: May cause damage to organs. H410: Very toxic to aquatic life with long lasting effects.
Precautionary Statements	 Prevention: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. 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. P260: Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264: Wash skin thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P280: Wear protective gloves/ protective clothing/ 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. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P311: IF exposed or concerned: Call a POISON CENTER/ doctor. 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. P362+P364: Take off contaminated clothing and wash it

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		 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 containet tightly closed. P403 + P235: Store in a well-ventilated place. Keep cool. Disposal: P501: Dispose of contents/ container to an approved waste disposal plant.
CTION 3: Composition/info	rmati	ion on ingredients
Synonyms	:	Thiobutyl Alcohol 1-Butanethiol NBM Normal Butyl Mercaptan Butyl Mercaptan
Molecular formula	:	C4H10S
Chemical name		CAS-No. / EINECS-No. Concentration
n-Butyl Mercaptan		[wt%] 109-79-5 98.5 - 100
TION 4: First aid measure	S	
2		
General advice	:	Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
TION 5: Firefighting meas	ures	
Flash point	:	3.3°C (37.9°F) Method: ASTM D - 1310
Autoignition temperature	:	272°C (522°F)
	-	

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		estimated
Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	:	Carbon oxides. Sulfur oxides.
ECTION 6: Accidental release	me	asures
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).
ECTION 7: Handling and stora	age	
ECTION 7: Handling and stora Handling	age	
	:	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
Handling	:	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

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	e> be lo se re	atic discharges. Provide sufficient air exchange and/or haust in work rooms. Open drum carefully as content may under pressure. Dispose of rinse water in accordance with cal and national regulations. Persons susceptible to skin nsitization problems or asthma, allergies, chronic or current respiratory disease should not be employed in any occess in which this mixture is being used.
Advice on protection against fire and explosion	Ta (w e>	o not spray on a naked flame or any incandescent material. ke necessary action to avoid static electricity discharge hich might cause ignition of organic vapors). Use only plosion-proof equipment. Keep away from open flames, hot rfaces and sources of ignition.
Storage		
Requirements for storage areas and containers	ve ca O	o smoking. Keep container tightly closed in a dry and well- ntilated place. Containers which are opened must be refully resealed and kept upright to prevent leakage. oserve label precautions. Electrical installations / working aterials must comply with the technological safety standards.
Use	: C	nemical intermediate
CTION 8: Exposure controls	s/perso	nal protection
Ingredients with workplac	ce contr	ol parameters
 I	Ce contr	Value Control parameters Note
l Components	1	
I Components -Butyl Mercaptan It applicable Engineering measures	Basis CN OEL	Value Control parameters Note PC-TWA 2 mg/m3
Adequate ventilation to com Consider the potential haza activities, and other substar personal protective equipme exposure to harmful levels of recommended. The user sl	Basis CN OEL trol airbo ards of th nces in th ent. If e of this m hould rea	Value Control parameters Note PC-TWA 2 mg/m3 Image: Section 2 and Section
Adequate ventilation to com Consider the potential haza activities, and other substar personal protective equipme exposure to harmful levels of recommended. The user sl	Basis CN OEL trol airbo ards of th nces in ti ent. If e of this m hould re- tion is us	Value Control parameters Note PC-TWA 2 mg/m3 Image: Section 2 and the exposure guidelines and the exposure limits. is material (see Section 2), applicable exposure limits, job and the exposure limits, job and the exposure limits and the expose and the
Adequate ventilation to com Consider the potential haza activities, and other substar personal protective equipme exposure to harmful levels of recommended. The user sl the equipment since protect	Basis CN OEL ards of th nces in ti ent. If e of this m hould re- tion is us oment : If m nc re ai pr Re Re pr po le	Value Control parameters Note PC-TWA 2 mg/m3 Image: Section 2 and Section

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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.
CTION 9: Physical and cher	nical properties
Information on basic phys	sical and chemical properties
Appearance	
Form Physical state Color Odor	: liquid : liquid : Clear : Repulsive
Safety data	
Flash point	: 3.3°C (37.9°F) Method: ASTM D - 1310
Lower explosion limit	: 1.4 %(V)
Upper explosion limit	: 11.3 %(V)
Oxidizing properties	: No
Autoignition temperature	: 272°C (522°F) estimated
Molecular formula	: C4H10S
Molecular weight	: 90.2 g/mol
рН	: Not applicable
Freezing point	: -115°C (-175°F)
Pour point	No data available
Boiling point/boiling range	: 96-110°C (205-230°F)
	: 1.60 PSI

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	at 38°C (100°F)
Relative density	: 0.842 at 15.6 °C (60.1 °F)
Density	: 840 g/l
Water solubility	: negligible
Partition coefficient: n-	: No data available
octanol/water Viscosity, dynamic	: 0.497 cP
Relative vapor density	: 2 (Air = 1.0)
Evaporation rate	: 1
Percent volatile	: >99 %
ECTION 10: Stability and reactive	/ity
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	ctions
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 chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
ECTION 11: Toxicological inform	nation
Acute oral toxicity	
n-Butyl Mercaptan	: LD50: 1,500 mg/kg
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	Species: Rat
Acute inhalation toxicity	
n-Butyl Mercaptan	: LC50: 22.3 mg/l Exposure time: 4 h Species: Rat Test atmosphere: vapor
	LC50: 14.8 mg/l Exposure time: 4 h Species: Rat Test atmosphere: vapor
Acute dermal toxicity	
n-Butyl Mercaptan	: LD50: > 2,000 mg/kg Species: Rabbit
Skin irritation	
n-Butyl Mercaptan	 No skin irritation Information given is based on data obtained from similar substances.
Eye irritation n-Butyl Mercaptan	: slight irritation. Information given is based on data obtained from similar substances.
Sensitization	
n-Butyl Mercaptan	: The product is a skin sensitizer, sub-category 1B.
Repeated dose toxicity	
n-Butyl Mercaptan	: Species: Rat Application Route: Inhalation Dose: 0, 9, 70, 150 ppm Exposure time: 13 wk Number of exposures: 6 h/d, 5 d/wk NOEL: 9 ppm Lowest observable effect level: 70 ppm
Genotoxicity in vitro	
n-Butyl Mercaptan	: Test Type: Ames test Result: negative
	Test Type: Mouse lymphoma assay Result: Ambiguous
	Test Type: Sister Chromatid Exchange Assay Result: negative
Developmental Toxicity	
n-Butyl Mercaptan	: Species: Rat

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Application Route: Inhalation Dose: 0, 10, 68, 152 ppm Number of exposures: 6 h/d Test period: GD 6-19 NOAEL Teratogenicity: > 152 ppm NOAEL Maternal: > 152 ppm
Species: Mouse Application Route: Inhalation Dose: 0, 10, 68, 152 ppm Number of exposures: 6 h/d Test period: GD 6-16 NOAEL Maternal: 10 ppm
: May be harmful if swallowed and enters airways.
: Solvents may degrease the skin.
ation
 LC50: 2.4 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Information given is based on data obtained from similar substances.
her aquatic invertebrates
: EC50: 0.020 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Immobilization Method: OECD Test Guideline 202
: EC50: 0.49 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (microalgae) Growth inhibition Method: OECD Test Guideline 201
: M-Factor (Acute Aquat. Tox.) 10
M-Factor (Chron. Aquat. Tox.) 10
: This material is not expected to be readily biodegradable.

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	Information given is based on data obtained from similar substances.
Bioaccumulation	
n-Butyl Mercaptan	 Bioconcentration factor (BCF): 14.84 Method: QSAR modeled data This material is not expected to bioaccumulate.
Mobility	
n-Butyl Mercaptan	: Method: Calculation, Mackay Level III Fugacity Model The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Additional ecological information Ecotoxicology Assessmen	: Very toxic to aquatic life with long lasting effects.
Short-term (acute) aquatic ha n-Butyl Mercaptan	
Long-term (chronic) aquatic I n-Butyl Mercaptan	
TION 13: Disposal consider	rations
CTION 13: Disposal consider	
The information in this SDS p Use material for its intended may meet the criteria of a ha other State and local regulati regulated components may b	rations pertains only to the product as shipped. purpose or recycle if possible. This material, if it must be discarded, izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste
The information in this SDS p Use material for its intended may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa	pertains only to the product as shipped. purpose or recycle if possible. This material, if it must be discarded, izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is
The information in this SDS p Use material for its intended may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility.	 pertains only to the product as shipped. purpose or recycle if possible. This material, if it must be discarded, uzardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste 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
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The information in this SDS p Use material for its intended may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility. Product Contaminated packaging	 pertains only to the product as shipped. purpose or recycle if possible. This material, if it must be discarded, izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste 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. 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.
The information in this SDS p Use material for its intended may meet the criteria of a ha other State and local regulati regulated components may b classified as a hazardous wa disposal facility. Product Contaminated packaging CTION 14: Transport informa The shipping descriptions shipments in non-bulk pac Consult the appropriate dom Goods Regulations for additi etc.) Therefore, the informat	 pertains only to the product as shipped. purpose or recycle if possible. This material, if it must be discarded, izardous waste as defined by US EPA under RCRA (40 CFR 261) or ions. Measurement of certain physical properties and analysis for be necessary to make a correct determination. If this material is aste, federal law requires disposal at a licensed hazardous waste 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. 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.

SAFETY DATA SHEET

Version 1.11

UN2347, BUTYL MERCAPTA	N, 3, II
	MARITIME DANGEROUS GOODS) N, 3, II, (3.3 °C c.c.), MARINE POLLUTANT, (N- BUTYL
IATA (INTERNATIONAL AIR TR UN2347, BUTYL MERCAPTA	
	ROUS GOODS BY ROAD (EUROPE)) N, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (N-
	IING THE INTERNATIONAL TRANSPORT OF
DANGEROUS GOODS (EUROP 33,UN2347,BUTYL MERCAPT MERCAPTAN)	E)) AN, 3, II, ENVIRONMENTALLY HAZARDOUS, (N- BUTYL
UN2347, BUTYL MERCAPTA MERCAPTAN)	N, 3, II, ENVIRONMENTALLY HAZARDOUS, (N- BUTYL
MERCAPTAN) Maritime transport in bulk acco	ording to IMO instruments
MERCAPTAN) Maritime transport in bulk acco TION 15: Regulatory informatio	ording to IMO instruments
MERCAPTAN) Maritime transport in bulk acco TION 15: Regulatory informatio Classification and Labeling of : Commonly Used Dangerous	ording to IMO instruments

	SAFETY DATA SHEET
n-Butyl Mercaptan	
Version 1.11	Revision Date 2022-10-12
	amount does not exceed the minimum threshold quantity of the non-registered substance(s).
Philippines PICCS Taiwan TCSI China IECSC	 On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory
Other regulations	: Law on the Prevention and Control of Occupational Diseases

Further information

Legacy SDS Number : 47670

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.

ACGIH	American Conference of	LD50	Lethal Dose 50%
	Government Industrial Hygienists		
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effe
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agenc
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupation 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 Concentra
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 Substar
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recov 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	TSCA	Toxic Substance Control Act
Number:100			3/14

SAFETY DATA SHEET

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	New Chemical Substances		
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%		

SDS Number:100000013394