### MATERIAL SAFETY DATA SHEET



# Scentinel® E Gas Odorant

Version 1.5

Revision Date 2013-07-16

TION 1: Identification of t	he substance/mixture and of the company/undertaking
Product information	
Trade name Material	<ul> <li>Scentinel® E Gas Odorant</li> <li>1106808, 1086435, 1086434, 1095112, 1079767, 1064505, 1098464, 1098226, 1024677, 1024673, 1034741, 1024674, 1024676, 1024678, 1024780, 1024782, 1024781, 1024778, 1024783, 1036153, 1024779, 1024675, 1105014</li> </ul>
Company	: Chevron Phillips Chemical Company LP Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
Asia: +800 CHEMCALL EUROPE: BIG +32.14.5	ational) REC 800.424.9300 or 703.527.3887 (+800 2436 2255) 584545 (phone) or +32.14583516 (telefax) otec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
TION 2: Hazards identifica	
Emergency Overview	
	Oslan Olaan Oslan Danulaina
	Color: Clear Odor: Repulsive : Flammable Liquid, Harmful by ingestion., Harmful by skin absorption., Moderate skin irritant, Moderate eye irritant
Physical state: Liquid	: Flammable Liquid, Harmful by ingestion., Harmful by skin
OSHA Hazards	: Flammable Liquid, Harmful by ingestion., Harmful by skin
Physical state: Liquid OSHA Hazards	<ul> <li>Flammable Liquid, Harmful by ingestion., Harmful by skin absorption., Moderate skin irritant, Moderate eye irritant</li> <li>Flammable liquids, Category 2 Skin sensitization, Sub-category 1B Aspiration hazard, Category 2 Acute aquatic toxicity, Category 1</li> </ul>
Physical state: Liquid OSHA Hazards GHS Classification	<ul> <li>Flammable Liquid, Harmful by ingestion., Harmful by skin absorption., Moderate skin irritant, Moderate eye irritant</li> <li>Flammable liquids, Category 2 Skin sensitization, Sub-category 1B Aspiration hazard, Category 2 Acute aquatic toxicity, Category 1</li> </ul>

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Symbol(s)	
Signal Word	: Danger
Hazard Statements	<ul> <li>H225: Highly flammable liquid and vapor.</li> <li>H305: May be harmful if swallowed and enters airways.</li> <li>H317: May cause an allergic skin reaction.</li> <li>H400: Very toxic to aquatic life.</li> <li>H411: Toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary Statements	<ul> <li>Prevention:</li> <li>P210: Keep away from heat/sparks/open flames/hot surfaces.</li> <li>No smoking.</li> <li>P233: Keep container tightly closed.</li> <li>P240: Ground/bond container and receiving equipment.</li> <li>P241: Use explosion-proof electrical/ventilating/lighting/ equipment.</li> <li>P242: Use only non-sparking tools.</li> <li>P243: Take precautionary measures against static discharge.</li> <li>P261: Avoid breathing dust/fume/gas/mist/vapors/spray.</li> <li>P272: Contaminated work clothing should not be allowed out of the workplace.</li> <li>P273: Avoid release to the environment.</li> <li>P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>Response:</li> <li>P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.</li> <li>P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> <li>P321: Specific treatment (see supplemental first aid instructions on this label).</li> <li>P331: Do NOT induce vomiting.</li> <li>P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.</li> <li>P363: Wash contaminated clothing before reuse.</li> <li>P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</li> <li>P391: Collect spillage.</li> <li>Storage:</li> <li>P403 + P235: Store in a well-ventilated place. Keep cool.</li> <li>P405: Store locked up.</li> <li>Dispose of contents/ container to an approved waste disposal plant.</li> </ul>
Carcinogenicity:	
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinoger

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by ACGIH.

Synonyms	: Mercaptan Mixture		
		Gas Odorant	
Molecular formula	: Mixture		
<u></u>			
Component		CAS-No.	Weight %
t-Butyl Mercaptan		75-66-1 75-33-2	75 - 80 13 - 18
Isopropyl Mercaptan n-Propyl Mercaptan		107-03-9	3 - 8
TION 4: First aid measures			
General advice	:	sheet to the doctor in atte	rea. Show this material safety data endance. Symptoms of poisoning ma er. Do not leave the victim
lf inhaled		Move to fresh air. If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician	
In case of skin contact		f skin irritation persists, o with water. If on clothes,	call a physician. If on skin, rinse well remove clothes.
In case of eye contact	l	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. Do NOT induce vomiting. Do no give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.		
TION 5: Firefighting measu	res		
Flash point		-18 °C (0 °F) estimated	
	(	esumateu	
Autoignition temperature	:	200 °C (392 °F)	
Suitable extinguishing media	:	Dry chemical. Carbon di	oxide (CO2). Alcohol-resistant foam
Unsuitable extinguishing media	:	High volume water jet.	
Specific hazards during fire fighting		Do not allow run-off from courses.	fire fighting to enter drains or water

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Special protective equipment for fire-fighters	:	Wear self contained breathing apparatus for fire fighting 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 an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.	
Hazardous decomposition products	:	Carbon oxides. Sulfur oxides.	
TION 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).	
TION 7: Handling and stora	age		
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 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 an open flame or any other incandescent material. Use only explosion-proof equipment. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open	

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flames, hot surfaces and sources of ignition.

### Storage

Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and wellventilated 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**

Personal protective equipment

MSDS Number:100000013401

Chevron Phillips Chemical Company LP				
Ingredients	Basis	Value	Control parameters	Note
t-Butyl Mercaptan	Manufacturer	TWA	0.5 ppm,	

### 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, 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 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:. Flame retardant antistatic protective clothing. Workers should wear antistatic footwear. Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. **SECTION 9: Physical and chemical properties** Information on basic physical and chemical properties Appearance Physical state : Liquid

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Color Odor	: Clear : Repulsive	
	. Repuisive	
Safety data		
Flash point	: -18 °C (0 °F) estimated	
Lower explosion limit	: 1.4 %(V)	
Upper explosion limit	: 12.5 %(V)	
Oxidizing properties	: no	
Autoignition temperature	: 200 °C (392 °F)	
Molecular formula	: Mixture	
Molecular Weight	: Not applicable	
рН	: Not applicable	
Pour point	: No data available	
Boiling point/boiling range	: 57 - 60 °C (135 - 140 °F)	
Vapor pressure	: 7.00 PSI at 38 °C (100 °F)	
Relative density	: 0.81, 16 °C(61 °F)	
Water solubility	: Negligible	
Partition coefficient: n- octanol/water	: No data available	
Viscosity, kinematic	: No data available	
Relative vapor density	: 2 (Air = 1.0)	
Evaporation rate	: > 1 (N-Butyl Acetate = 1)	
Percent volatile	: > 99 %	

# SECTION 10: Stability and reactivity

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Possibility of hazardous rea	actions
Conditions to avoid	: Not applicable.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
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Other data	<ul> <li>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</li> <li>No decomposition if stored and applied as directed.</li> </ul>
ECTION 11: Toxicological infor	mation
Scentinel® E Gas Odorant Acute oral toxicity	: Acute toxicity estimate: 10,366 mg/kg Method: Calculation method
Acute inhalation toxicity	
t-Butyl Mercaptan	<ul> <li>LC50: 26643 ppm Exposure time: 4 h Species: rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403</li> <li>LC50: 22200 ppm Exposure time: 4 h Species: rat Sex: male Test atmosphere: vapor Method: OECD Test Guideline 403</li> <li>LC50: 16500 ppm Exposure time: 4 h Species: mouse Sex: male Test atmosphere: vapor Method: OECD Test Guideline 403</li> </ul>
Isopropyl Mercaptan	LC50: > 32.24 mg/l Exposure time: 4 h Species: rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403 Test substance: yes An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
n-Propyl Mercaptan	LC50: > 25.5 mg/l Exposure time: 4 h Species: rat Test atmosphere: dust/mist Method: OECD Test Guideline 403 An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.
Acute dermal toxicity	
t-Butyl Mercaptan	: LD50: > 2,000 mg/kg Species: rabbit
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Isopropyl Mercaptan	LD50: > 2,000 mg/kg Species: rat Method: No information available. see user defined free text
n-Propyl Mercaptan	LD50: > 1,682 mg/kg Species: rabbit Sex: male and female Method: OECD Test Guideline 402
Scentinel® E Gas Odorant Skin irritation	: May cause skin irritation and/or dermatitis.
Scentinel® E Gas Odorant Eye irritation	: May cause irreversible eye damage.
Scentinel® E Gas Odorant Sensitization	: Causes sensitization.
Repeated dose toxicity	
t-Butyl Mercaptan	<ul> <li>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: &gt; 196 ppm</li> </ul>
	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
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
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	Method: OECD Guideline 422 NOAEL Parent: 200 mg/kg bw/day NOAEL F1: 50 mg/kg bw/day No adverse effects expected
Teratogenicity	
t-Butyl Mercaptan	<ul> <li>Species: mouse Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD 6-16 Number of exposures: 6 hrs/d NOAEL Teratogenicity: &gt; = 195 ppm NOAEL Maternal: &gt; = 195 ppm</li> </ul>
	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: 200 mg/kg bw /day
Scentinel® E Gas Odorant Aspiration toxicity	: May be harmful if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.
CMR effects	
t-Butyl Mercaptan	<ul> <li>Carcinogenicity: Not available Mutagenicity: Did not show mutagenic effects in animal experiments. Teratogenicity: Did not show teratogenic effects in animal experiments. Reproductive toxicity: No toxicity to reproduction</li> </ul>
Scentinel® E Gas Odorant Further information	: Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin.
SECTION 12: Ecological informa	tion
Toxicity to fish	
t-Butyl Mercaptan	: LC50: 34 mg/l
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	Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203
Isopropyl Mercaptan	LC50: 34 mg/l Exposure time: 96 h semi-static test Analytical monitoring: yes Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.
n-Propyl Mercaptan	LC50: 1.3 mg/l Exposure time: 96 h Species: Pimephales promelas (fathead minnow) Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 203 Toxic to aquatic organisms.
Toxicity to daphnia and o	ther 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
Isopropyl Mercaptan	EC50: 0.25 - 0.5 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Test substance: yes Method: OECD Test Guideline 202
n-Propyl Mercaptan	0.07 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 202 Very toxic to aquatic organisms.
Toxicity to algae	
t-Butyl Mercaptan	<ul> <li>EC50: 24 mg/l</li> <li>Exposure time: 72 h</li> <li>Species: Pseudokirchneriella subcapitata (green algae)</li> <li>Method: OECD Test Guideline 201</li> </ul>
propane-2-thiol propane-1-thiol	: 1 10
Elimination information (pe	rsistence and degradability)
Bioaccumulation	
t-Butyl Mercaptan	: Bioconcentration factor (BCF): 12 Bioaccumulation is unlikely.
Biodegradability	: Expected to be biodegradable
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Results of PBT assessment				
t-Butyl Mercaptan	: Non-classified PBT substance, Non-classified vPvB substance			
Additional ecological information	<ul> <li>An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.</li> <li>Very toxic to aquatic life.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>			
SECTION 13: Disposal considera	ations			
The information in this MSDS	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 informat	ion			
	hown here are for bulk shipments only, and may not apply to ages (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 MSDS and the bill of lading.				
US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN), 3, II, MARINE POLLUTANT				
IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN), 3, II, (-18 °C), MARINE POLLUTANT, (TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN)				
IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN), 3, II				

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### Scentinel® E Gas Odorant Version 1.5 Revision Date 2013-07-16 ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE)) UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS **RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF** DANGEROUS GOODS (EUROPE)) UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN), 3, II, ENVIRONMENTALLY HAZARDOUS ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) UN3336, MERCAPTANS, LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, ISOPROPYL MERCAPTAN), 3, II, ENVIRONMENTALLY HAZARDOUS Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code **SECTION 15: Regulatory information National legislation** SARA 311/312 Hazards : Fire Hazard Acute Health Hazard **EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW** CERCLA Reportable : This material does not contain any components with a CERCLA Quantity RQ. SARA 302 Reportable : This material does not contain any components with a SARA Quantity 302 RQ. SARA 302 Threshold : SARA 302: No chemicals in this material are subject to the Planning Quantity reporting requirements of SARA Title III, Section 302. SARA 304 Reportable : This material does not contain any components with a section Quantity 304 EHS RQ. : SARA 313: This material does not contain any chemical SARA 313 Ingredients components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. MSDS Number:100000013401 12/15

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### Clean Air Act

Ozone-Depletion : Potential	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).			
This product does not Act Section 12 (40 CF	t contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air <sup>-</sup> R 61).			
	t contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for revention (40 CFR 68.130, Subpart F).			
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).				
US State Regulations	;			
Massachusetts Right	To Know : n-Propyl Mercaptan - 107-03-9 t-Butyl Mercaptan - 75-66-1 Isopropyl Mercaptan - 75-33-2			

Pennsylvania Right To Know	: t-Butyl Mercaptan - 75-66-1
New Jersey Right To Know	: n-Propyl Mercaptan - 107-03-9 t-Butyl Mercaptan - 75-66-1 Isopropyl Mercaptan - 75-33-2
California Prop. 65	: This product does not contain any chemicals know

California Prop. 65	:	This product does not contain any chemicals known to the State
Ingredients		of California to cause cancer, birth, or any other reproductive defects.

# Notification status

- 1	Notification Status		
	Europe REACH	:	On the inventory, or in compliance with the inventory
	United States of America US.TSCA	:	On the inventory, or in compliance with the inventory
	Canada DSL	:	On the inventory, or in compliance with the inventory
	Australia AICS	:	On the inventory, or in compliance with the inventory
	New Zealand NZIoC	:	On the inventory, or in compliance with the inventory
	Japan ENCS	:	On the inventory, or in compliance with the inventory
	Korea KECI	:	On the inventory, or in compliance with the inventory
	Philippines PICCS	:	On the inventory, or in compliance with the inventory
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China IECSC

On the inventory, or in compliance with the inventory

# SECTION 16: Other information

NFPA Classification : Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0

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### Further information

Legacy MSDS Number : 93850

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

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

The information provided in this Material 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 Government Industrial Hygienists	LD50	Lethal Dose 50%
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	TLV	Threshold Limit Value

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	on Cancer		
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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