

SCENTINEL® S-20 Gas Odorant

Version 1.2

Revision Date 2024-03-15

according to GB/T 16483 and GB/T 17519

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

Product Name Material	 SCENTINEL® S-20 Gas Odorant 1096889, 1098465, 1024714, 1024715, 1024716, 1024722, 1024719, 1024718, 1024717, 1024713, 1024721, 1033064, 1024720
Use	: 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
Asia: CHEMWATC Mexico CHEMTRE South America SC Argentina: +(54)-1 EUROPE: BIG +32 Austria: VIZ +43 1 Belgium: 070 245 Bulgaria: +359 2 9	International) (424.9300 or 703.527.3887(int'l) CH (+612 9186 1132) China: 0532 8388 9090 EC 01-800-681-9531 (24 hours) DS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 1159839431 82.14.584545 (phone) or +32.14583516 (telefax) 1 406 43 43 (24 hours/day, 7 days/week) 245 (24 hours/day, 7 days/week) 9154 233 848 342 (24 hours/day, 7 days/week)
Czech Republic: T Denmark: Danish Estonia: BIG +32.2	Toxicological Information Center +420 224 919 293, +420 224 915 402 Poison Center (Giftlinjen): +45 8212 1212 14.584545 (phone) or +32.14583516 (telefax) 7 111 09 471 977 (24 hours/day)

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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: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02
66101029; POISON CENTER ROME – Policlinico "Agostino Gemelli", Servizio di tossicologia
clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù
Tel. +39 06 68593726;POISON CENTER ROME - Policlinico "Umberto I" Tel. +39 06 4997 8000;
POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326;
POISON CENTER NAPLES – Azienda Ospedaliera "Antonio Cardarelli" Tel. +39 081 7472870;
POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055
7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382
24444; POISON CENTER BERGAMO – Azienda Ospedaliera "Papa Giovanni XXIII" Tel. 800 883
300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011
858;
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
Sovenia: 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

ODOR-FADE WARNING	

E-mail address

Website

A GAS LEAK CAN CAUSE A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH.

: SDS@CPChem.com

: www.CPChem.com

Be aware that the stenching chemical added to gas to make it detectable may not warn of a gas leak or the presence of propane or natural gas to all persons in every instance.

Instances where the odorant in an odorized gas may be undetectable include:

• Odor intensity may fade or be eliminated for a variety of chemical and physical causes, including the oxidation of rusting pipes, adsorption into or sticking onto the interior of pipes or appliances, or absorption into liquids.

• Contact with soil in underground leaks may de-odorize or remove odorant from the gas.

• Some people have a diminished ability, or inability to smell the stench. Factors that negatively affect a person's sense of smell include age, gender, medical conditions, and alcohol/tobacco usage.

• The stench of odorized gas may not awaken sleeping persons.

• Other odors may mask or hide the stench.

• Exposure to the odor for even a short period of time, may cause nasal fatigue, where a person can no longer smell the stench.

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Gas detectors listed by the Underwriters Laboratories (UL) can be used as an extra measure of safety for detecting gas leaks, especially under conditions where the odorant alone may not provide an adequate warning. Gas detectors emit a loud, shrill sound when gas is present and do not depend on sense of smell. Because the odor intensity can fade or people may have problems with their sense of smell, we recommend installing, per manufacturer's instructions, one or more combustible gas detectors, in suitable locations to ensure adequate coverage to detect gas leaks.

Educate yourself, your employees, and your customers with the content of this warning and other important facts associated with the so-called "odor-fade phenomenon."

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

Form: liquid Physical sta	te: liquid Color: Clear Odor: Repulsive
Hazards	: Highly flammable liquid and vapor. Causes mild skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause drowsiness or dizziness. May be harmful i swallowed and enters airways. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Classification	
	 Flammable liquids, Category 2 Skin corrosion/irritation, Category 3 Serious eye damage/eye irritation, Category 2A 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. H305: May be harmful if swallowed and enters airways. H316: Causes mild skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long lasting effects.

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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.
	P243. 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.
	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
	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 containe
	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.
CTION 3: Composition/inform	nation on ingredients
Synonyms	: Gas Odorant
	Mixture of t-butyl mercaptan and methy ethyl sulfide
	Mercaptan Mixture
Malagular formula	. Mixture
Molecular formula	: Mixture
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Chemical name	CAS-No. / EINECS-No.	Concentration [wt%]
t-Butyl Mercaptan	75-66-1	76 - 80
Methyl Ethyl Sulfide	624-89-5	20 - 24

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 skin irritation persists, call a physician. 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.
Notes to physician		
Symptoms	:	No data available.
Risks	:	No data available.
Treatment	:	No data available.
SECTION 5: Firefighting measure	ures	

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Flash point	:	<-18°C (<0°F) estimated
Autoignition temperature	:	No data available
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
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		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.
CTION 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).
CTION 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 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		

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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	: Odorant
ECTION 8: Exposure controls	personal protection
ECTION 8: Exposure controls	personal protection

Ingredients with workplace control parameters

Chevron Phillips Chemical Company LP

<u></u>				
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	:	If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as:. Air-Purifying Respirator for Organic Vapors. A positive pressure, air- supplying respirator may be appropriate 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 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
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	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.
TION 9: Physical and chem	ical properties
Information on basic physi	ical and chemical properties
Appearance	
Form	: liquid
Physical state	: liquid
Color	: Clear
Odor Odor Three hald	: Repulsive
Odor Threshold	: No data available
Safety data	
Flash point	: <-18°C (<0°F)
	estimated
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Oxidizing properties	: no
Autoignition temperature	: No data available
Thermal decomposition	: No data available
Molecular formula	: Mixture
Molecular weight	: Not applicable
рН	: Not applicable
Pour point	: <-54°C (<-65°F)
Boiling point/boiling range	: 63-68°C (145-154°F)
Vapor pressure	: 5.70 PSI at 38°C (100°F)
Relative density	: 0.813 at 16 °C (61 °F)
Density	: 6.78 L/G
Water solubility	: slightly soluble
Partition coefficient: n- octanol/water	: No data available
Viscosity, dynamic	: 0.5 cP
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Relative vapor density	: 3 (Air = 1.0)
Evaporation rate	: 1
Percent volatile	: > 99 %
Conductivity	: No data available
CTION 10: Stability and reactive	vity
Reactivity	: Stable at normal ambient temperature and pressure.
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.
Thermal decomposition	: No data available
Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	mation
SCENTINEL® S-20 Gas Odo	rant
Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
SCENTINEL® S-20 Gas Odo Acute inhalation toxicity	rant : Acute toxicity estimate: > 20 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
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Acute dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method				
SCENTINEL® S-20 Gas Odora Skin irritation	ant : May cause skin irritation and/or dermatitis.				
SCENTINEL® S-20 Gas Odora Eye irritation	ant : Eye irritation largely based on animal evidence.				
SCENTINEL® S-20 Gas Odora Sensitization	ant : Causes sensitization. largely based on animal evidence.				
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

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Revision Decision Support Provision Support Provision Support Result: Result: Result: Result: Result: Result: Result: Metholic activation:: with and without metabolic activation: Metholic activation:: with and without metabolic activation: Result: negative: Metholic activation:: with and without metabolic activation: Result: negative: Metholic activation:: with and without metabolic activation: Result: negative: Method: OECD Test Guideline 473 Result: negative: Method: OECD Test Guideline 473 Result: negative: Detect Statication: Colspan="2">Colspan="2">Colspan= 2">Colspan= 2">Colspan= 2">Colspan= 2">Colspan= 2">Colspan= 2">Colspan= 2" Method: OECD Test Guideline 473 Result: negative: Detect Statication: Colspan="2">Colspan= 2" Detect Statication: Colspan="2" Detect Statication: Colspan="2"		SAFETT DATA SHEET
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 Methyl Ethyl Sulfide Test Type: Ames test Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 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 : 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	CENTINEL® S-20 Gas	s Odorant
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 Methyl Ethyl Sulfide Test Type: Ames test Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 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 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 F1: 50 mg/kg bw/day NOAEL F1: 50 mg/kg bw/day NoAEL F1: 50 mg/kg bw/day No adverse effects expected Developmental Toxicity t-	ersion 1.2	Revision Date 2024-03-15
Metabolic activation: with and without metabolic activation Result: negative Methyl Ethyl Sulfide Test Type: Ames test Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 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 Parent: 150 mg/kg bw/day NoAEL Parent: 200 mg/kg bw/day NoAEL Parent: 200 mg/kg bm/day NoAEU Parent: 60 6-16 Number of exposures: 6 hrs/d <		Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476
Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 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 No adverse effects expected Developmental Toxicity : 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		Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473 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 F1: 50 mg/kg bw/day No adverse effects expected Developmental Toxicity : 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	Methyl Ethyl Sulfide	Method: OECD Test Guideline 471
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 No adverse effects expected Developmental Toxicity : t-Butyl Mercaptan : Species: Mouse 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 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		Method: OECD Test Guideline 473
Species: Mouse Dose: 1250, 2500, 5000 mg/kg Method: OECD Test Guideline 474 Result: negative 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	Genotoxicity in vivo	
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 NOAEL F1: 50 mg/kg bw/day No adverse effects expected	t-Butyl Mercaptan	Species: Mouse Dose: 1250, 2500, 5000 mg/kg Method: OECD Test Guideline 474
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 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	Reproductive 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	t-Butyl Mercaptan	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
Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD 6-16 Number of exposures: 6 hrs/d NOAEL Teratogenicity: > = 195 ppm	Developmental Toxicity	
	t-Butyl Mercaptan	Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD 6-16 Number of exposures: 6 hrs/d NOAEL Teratogenicity: > = 195 ppm

SCENTINEL® S-20 Gas Odorant

SCENTINEL® S-20 Ga	as Odorant			
Version 1.2	Revision Date 2024-03-15			
	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			
SCENTINEL® S-20 Gas O Aspiration toxicity	dorant : 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. 			
SCENTINEL® S-20 Gas O Further information SECTION 12: Ecological inform	: Solvents may degrease the skin.			
Tovición to fich				
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			
Methyl Ethyl Sulfide	LC50: > 49.8 mg/l Exposure time: 96 h Method: OECD Test Guideline 203			
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			
Methyl Ethyl Sulfide	EC50: 16 mg/l Exposure time: 48 h			
	Species: Daphnia			

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	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
Methyl Ethyl Sulfide	ErC50: > 500 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201
	EbC50: 310 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201
Toxicity to bacteria	
Methyl Ethyl Sulfide	: EC50: > 1,000 mg/l Exposure time: 3 h Species: Bacteria Respiration inhibition Method: OECD Test Guideline 209
Biodegradability	
t-Butyl Mercaptan	 aerobic Result: Not readily biodegradable. 6 % Testing period: 63 d Method: OECD Test Guideline 301
Methyl Ethyl Sulfide	: aerobic 41 % Testing period: 28 d Method: OECD Test Guideline 301D According to the results of tests of biodegradability this product is not readily biodegradable.
	: aerobic 92 % Testing period: 31 d Method: OECD Test Guideline 301D Expected to be inherently biodegradable.
Bioaccumulation	
t-Butyl Mercaptan	: Bioconcentration factor (BCF): 12 Method: QSAR modeled data This material is not expected to bioaccumulate.
Methyl Ethyl Sulfide	: This material is not expected to bioaccumulate.

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SAFETY DATA SHEET

Version 1.2

Revision Date 2024-03-15

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t-Butyl Mercaptan	: Method: Calculation, Mackay Level III Fugacity Model The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Methyl Ethyl Sulfide	: The product evaporates readily.
Results of PBT assessmen t-Butyl Mercaptan	t : Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information Ecotoxicology Assessme	: Toxic to aquatic life with long lasting effects.
Short-term (acute) aquatic	hazard
t-Butyl Mercaptan	: Toxic to aquatic life.
Methyl Ethyl Sulfide	: Harmful to aquatic life.
Long-term (chronic) aquation	b hazard
t-Butyl Mercaptan	: Toxic to aquatic life with long lasting effects.
Methyl Ethyl Sulfide	: Harmful to aquatic life with long lasting effects.
SECTION 13: Disposal consid	erations
The information in this SDS	pertains only to the product as shipped.
	d purpose or recycle if possible. This material, if it must be discarded, azardous waste as defined by US EPA under RCRA (40 CFR 261) or

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

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bill of lading.

Version 1.2

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	LIQUID, FLAMMABLE, N.O.Ś., (TERTIARY BUTYL JLFIDE), 3, II, (< -18 °C c.c.), MARINE POLLUTANT,
IATA (INTERNATIONAL AIR TRANSI UN3336, MERCAPTAN MIXTURE, MERCAPTAN, METHYL ETHYL SU	LIQUID, FLAMMABLÉ, N.O.S., (TERTIARY BUTYL
	LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL JLFIDE), 3, II, (D/E), ENVIRONMENTALLY
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DANGEROUS GOODS (EUROPE)) 33,UN3336,MERCAPTAN MIXTURE	E, LIQUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL LFIDE), 3, II, ENVIRONMENTALLY HAZARDOUS,
OF DANGEROUS GOODS BY INLAN UN3336, MERCAPTAN MIXTURE,	LIQUID, FLAMMÁBLE, N.O.S., (TERTIARY BUTYL JLFIDE), 3, II, ENVIRONMENTALLY HAZARDOUS,
Maritime transport in bulk according	g to IMO instruments
SECTION 15: Regulatory information	
Classification and Labeling of : Prir Commonly Used Dangerous Chemical Substances	nary label: Combustible Liquid.
Notification status Europe REACH :	A substance or substances in this product is not registered or notified to be registered. Importation or manufacture of this product is still permitted provided that it does not exceed the REACH minimum threshold quantity of the non-regulated substances.
Switzerland CH INV :	Not in compliance with the inventory
United States of America (USA) :	On or in compliance with the active portion of the
SDS Number:100000013388	15/17

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New Zealand		: Not in	compliance w	ith the invento	ory	
Japan ENC					with the inventory	/
Korea KECI					s not registered, oted from registration	on
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	Chemical Substances		Commercial Chemical Substances
MAK	Germany Maximum Concentration	PRNT	Presumed Not Toxic
	Values		
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	UVCB	Unknown or Variable Composition,
	Inventory		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

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