

## **SCENTINEL® N Gas Odorant**

Version 2.1

Revision Date 2022-06-07

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product information** Product Name : SCENTINEL® N Gas Odorant 1120698, 1120697, 1120696, 1119303, 1116175, 1099837, Material 1027464, 1024680, 1024681, 1024683, 1027463, 1024682 Use : Odorant Company : Chevron Phillips Chemical Company LP **Specialty Chemicals** 10001 Six Pines Drive The Woodlands, TX 77380 **Emergency telephone:** Health: 866.442.9628 (North America) 1.832.813.4984 (International) Transport: CHEMTREC 800.424.9300 or 703.527.3887(int'l) Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 Mexico CHEMTREC 01-800-681-9531 (24 hours) South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 Argentina: +(54)-1159839431 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week) Belgium: 070 245 245 (24 hours/day, 7 days/week) Bulgaria: +359 2 9154 233 Croatia: +3851 2348 342 (24 hours/day, 7 days/week) Cyprus: 1401 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402 Denmark: Danish Poison Center (Giftlinien): +45 8212 1212 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Finland: 0800 147 111 09 471 977 (24 hours/day) France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Greece: (0030) 2107793777 (24 hours/day, 7 days/week) Hungary: +36-80-201-199 (24 hours/day, 7 days/week) Iceland: 543 2222 (24 hours/day, 7 days/week) Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.) Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Lithuania: +370 (85) 2362052 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week) Malta: +356 2395 2000 The Netherlands: NVIC: +31 (0)88 755 8000 Norway: 22 59 13 00 (24 hours/day, 7 days/week) Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax) Portugal: CIAV phone number: +351 800 250 250 Romania: +40213183606 Slovakia: +421 2 5477 4166 Slovenia: Phone number: 112 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week) Sweden: 112 - ask for Poisons Information : Product Safety and Toxicology Group Responsible Department E-mail address : SDS@CPChem.com Website www.CPChem.com

ODOR-FADE WARNING

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

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.

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

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

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sion 2.1 Revision Date 2023 Classification Flammable liquids, Category 2 By sinitation, Category 2 Skin sensitization, Category 2 Symbol(s) Symbol(s) Figure 2023 Signal Word Figure 2024 Flazard Statements Flazard Statements Frecautionary Statemen	ENTINEL® N Gas O	SAFETY DATA SH
<ul> <li>Flammable liquids, Category 2 Eye irritation, Category 2B Skin sensitization, Category 1</li> <li>Labeling</li> <li>Symbol(s) <ul> <li>i i i i i i i i i i i i i i i i i i i</li></ul></li></ul>	sion 2.1	Revision Date 2022-0
Symbol(s) : Expandent is a particular of the second	Classification	Eye irritation, Category 2B
Signal Word       : Danger         Hazard Statements       : H225: Highly flammable liquid and vapor. H317: May cause an allergic skin reaction. H320: Causes eye irritation.         Precautionary Statements       : Prevention: P210         Precoutionary Statements       : Prevention: P210         P210       Keep container tightly closed. P213         P240       Ground/bond container and receiving equipment. P241         P242       Use only non-sparking tools. P243         P241       Avoid breathing dust/fume/ gas/ mist/ vapors/ spray P261         P242       Use only non-sparking tools. P243         P243       Take precautionary measures against static discharg P261         P240       Wear protective gloves/ eye protection/ face protection the workplace. P240         P240       Wear protective gloves/ eye protection/ face protection the sock place. P243         P240       Wear protective gloves/ eye protection/ face protection the workplace. P240         P240       Wear protective gloves/ eye protection/ face protection the sock place. P243         P334       P313       If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313         P335       P313       If skin irritation persists: Get medical advice/ attention. P337 + P313         P334       P315       If eye irritation persists: Get medical advice/ attention. P337 + P315         P343 <t< td=""><td>Labeling</td><td></td></t<>	Labeling	
Hazard Statements       : H225: Highly flammable liquid and vapor. H317: May cause an allergic skin reaction. H320: Causes eye irritation.         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 discharr P241 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed ou the workplace. P280 Wear protective gloves/ eye protection/ face protecti Response: 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. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P336 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical o alcohol-resistant foam to extinguish. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. Disposal: P501 Dispose of contents/ container to an approved wasted disposal plant.	Symbol(s)	
H317: May cause an allergic skin reaction.         H320: Causes eye irritation.         Precautionary Statements         :       Prevention:         P230       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 P264         Wash skin thoroughly after handling.         P272       Contaminated work clothing must not be allowed out the workplace.         P280       Wear protective gloves/ eye protection/ face protection Response:         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.         P333 + P313       If skin irritation or rash occurs: Get medical advice/ attention.         P363       Wash contaminated clothing before reuse.         P370 + P378       In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.         Storage:       P403 + P235       Store in a well-ventilated place. K	Signal Word	: Danger
<ul> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfaces. 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 discharg.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P272 Contaminated work clothing must not be allowed our the workplace.</li> <li>P280 Wear protective gloves/ eye protection/ face protecti Response:</li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</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 o alcohol-resistant foam to extinguish.</li> <li>Storage:</li> <li>P403 + P235 Store in a well-ventilated place. Keep cool.</li> <li>Disposal plant.</li> </ul>	Hazard Statements	H317: May cause an allergic skin reaction.
	Precautionary Statements	<ul> <li>P210 Keep away from heat/ sparks/ open flames/ hot surfaces. 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>P264 Wash skin thoroughly after handling.</li> <li>P272 Contaminated work clothing must not be allowed out of the workplace.</li> <li>P280 Wear protective gloves/ eye protection/ face protection</li> <li>Response:</li> <li>P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> <li>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</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 to extinguish.</li> <li>Storage:</li> <li>P403 + P235 Store in a well-ventilated place. Keep cool.</li> <li>Disposal:</li> <li>P501 Dispose of contents/ container to an approved waste</li> </ul>
IARC No ingredient of this product present at levels greater than or	Carcinogenicity:	
equal to 0.1% is identified as probable, possible or confirmed	IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed

	uct present at levels greater than or I as a known or anticipated carcinogen
lo ingredient of this produ qual to 0.1% is identified y NTP. on on ingredients Scentinel® N-4 Gas Od Mercaptan Mixture Gas Odorant Mixture CAS-No. 75-66-1	C. uct present at levels greater than or l as a known or anticipated carcinogen orant
lo ingredient of this produ qual to 0.1% is identified y NTP. on on ingredients Scentinel® N-4 Gas Od Mercaptan Mixture Gas Odorant Mixture CAS-No. 75-66-1	uct present at levels greater than or l as a known or anticipated carcinogen orant
Scentinel® N-4 Gas Od Mercaptan Mixture Gas Odorant Mixture CAS-No. 75-66-1	
Mercaptan Mixture Gas Odorant Mixture CAS-No. 75-66-1	
CAS-No. 75-66-1	Weight %
75-66-1	Weight %
75-33-2	75 - 80
10 00-2	13 - 25
107-03-9	0 - 7
513-53-1	2 - 4
sheet to the doctor in at	area. Show this material safety data tendance. Material may produce a pneumonia if swallowed or vomited.
If unconscious, place in advice. If symptoms pe	recovery position and seek medical rsist, call a physician.
If on skin, rinse well with	n water. If on clothes, remove clothes.
lenses. Protect unharm	) with plenty of water. Remove contac ed eye. Keep eye wide open while persists, consult a specialist.
	ear. Never give anything by mouth to If symptoms persist, call a physician. to hospital.
Method: closed cup estimated	
No data available	
Alcohol-resistant foam.	Carbon dioxide (CO2). Dry chemical.
High volume water jet.	
Do not allow run-off from	n fire fighting to enter drains or water
	sheet to the doctor in at serious, potentially fatal If unconscious, place in advice. If symptoms pe If on skin, rinse well with Immediately flush eye(s lenses. Protect unharm rinsing. If eye irritation p Keep respiratory tract cl an unconscious person. Take victim immediately -18°C (0°F) Method: closed cup estimated No data available Alcohol-resistant foam. High volume water jet.

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fighting		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.		
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	ge			
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		Do not spray on a naked flame or any incandescent material.		

					SAFE	TY DATA SHE
CENTINEL® N Gas (	Odo	orant				
ersion 2.1				٦	Revision	Date 2022-06-
		explosion		nition of organic vap ment. Keep away fr of ignition.		
Storage						
Requirements for storage areas and containers	:	ventilated carefully r Observe l	l place. Con resealed and label precau	ontainer tightly closed tainers which are op I kept upright to prev tions. Electrical insta y with the technologi	ened m vent leak allations	ust be kage. s / working
Use	:	Odorant				
CTION 8: Exposure control	s/ner	sonal prof	tection			
Butyl Mercaptan		ufacturer	TWA	0.5 ppm,		Nete
omponents Propyl Mercaptan	Bas	IS SH REL	Value C	Control parame 0.5 ppm, 1.6 mg/		Note
	NIO		C	0.5 ppm, 1.6 mg/	1113	
Adequate ventilation to con Consider the potential haza activities, and other substan personal protective equipm exposure to harmful levels recommended. The user s the equipment since protec	ards o nces ent. of this hould tion is	of this mate in the work If engineer s material, I read and s usually pr	rial (see Sec place when ing controls the personal understand a	tion 2), applicable ex designing engineeri or work practices are protective equipmen all instructions and lin	xposure ing contr e not ad nt listed mitation	limits, job rols and selecti equate to preve below is s supplied with
Personal protective equip	omen	t				
Respiratory protection	:	ventilation maintain i normal at respirator material if occur, suc Use a pos potential f	n or other en minimal oxyg mospheric p that provide f exposure to ch as:. Air-F sitive pressu for uncontrol	IOSH approved resp gineering controls an gen content of 19.5% ressure. Wear a NIC is protection when w harmful levels of an Purifying Respirator f re, air-supplying resp led release, aerosoli	re adequ 6 by volu OSH app orking v rborne r or Organ pirator if ization, e	uate to ume under proved vith this naterial may nic Vapors. there is exposure
				or other circumstand hay not provide adeq		

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.

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		SAFETY DATA SHEET
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Eye protection	:	Eye wash bottle with pure water. Tightly fitting safety goggles.
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

Γ

Appearance	
Form Physical state Color Odor	: liquid : liquid : Clear : Repulsive
Safety data	
Flash point	: -18°C (0°F) Method: closed cup estimated
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: No data available
Molecular formula	: Mixture
Molecular weight	: Not applicable
рН	: Not applicable
Freezing point	: No data available
Pour point	No data available
Boiling point/boiling range	: 58.3-70°C (136.9-158°F)
Vapor pressure	: 6.80 PSI at 38°C (100°F) Literature
Relative density	: 0.81 at 15.6 °C (60.1 °F), estimated
Density	: 810.1 g/l

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Water solubility	: Slightly soluble
Partition coefficient: n-	: No data available
octanol/water	
Viscosity, kinematic	: 0.5 cSt
	at 40°C (104°F)
Relative vapor density	: 1
	(Air = 1.0)
Evaporation rate	: >1
	(N-Butyl Acetate = 1)
Percent volatile	: > 99 %
CTION 10: Stability and reacting	vitv
······································	
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: Vapors may form explosive mixture with
	air.
Conditions to avoid	: Heat, flames and sparks.
Hazardous decomposition	: Carbon oxides
products	Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
CTION 11: Toxicological infor	mation
SCENTINEL® N Gas Odoran	t
Acute oral toxicity	: Acute toxicity estimate: 3,793 mg/kg
	Method: Calculation method
SCENTINEL® N Gas Odoran Acute inhalation toxicity	it : Acute toxicity estimate: > 20 mg/l
	Test atmosphere: vapor
	Method: Calculation method
SCENTINEL® N Gas Odoran	
Acute dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg

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	Method: Calculation method
SCENTINEL® N Gas Odorant Skin irritation	May cause skin irritation and/or dermatitis.
SCENTINEL® N Gas Odorant Eye irritation :	Vapors may cause irritation to the eyes, respiratory system and the skin.
SCENTINEL® N Gas Odorant Sensitization	Causes sensitization.
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.
Isopropyl Mercaptan	Species: Rat, male and female Sex: male and female Application Route: Inhalation Exposure time: 13 wks Number of exposures: 6hrs/d, 5 d/wk NOEL: 0.367 mg/l 99.6 ppm Lowest observable effect level: 1.488 mg/l 403.4 ppm Method: OECD Test Guideline 413 Target Organs: Liver, Kidney, Upper respiratory tract, Blood Information given is based on data obtained from similar substances.
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Version 2.1 Revision Date 2022-06-07 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 Lowest observable effect level: 200 mg/kg Method: OECD Guideline 422 Target Organs: Liver, Blood Information given is based on data obtained from similar substances. Species: Rat, male and female Sex: male and female **Application Route: Inhalation** Exposure time: 13 wks Number of exposures: 6hrs/d, 5 d/wk NOEL: >= 196 ppm Method: OECD Test Guideline 413 Target Organs: Kidney, Upper respiratory tract, Blood Information given is based on data obtained from similar substances. Species: Rat, male and female n-Propyl Mercaptan 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 Method: OECD Test Guideline 413 Information given is based on data obtained from similar substances. sec-butyl Mercaptan Species: Rat, male and female Sex: male and female **Application Route: Inhalation** Exposure time: 13 wks Number of exposures: 6 hrs/d, 5 d/wk NOEL: 0.367 mg/l 99.6 ppm Lowest observable effect level: 1.488 mg/l 403.4 ppm Method: OECD Guideline 413 Target Organs: Blood, Liver, Kidney, Upper respiratory tract Genotoxicity in vitro t-Butyl Mercaptan : Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative SDS Number:100000014161 10/22

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	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
Isopropyl Mercaptan	Test Type: reverse mutation assay Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 490 Result: negative
	Test Type: Micronucleus test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 487 Result: negative
n-Propyl Mercaptan	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
	Test Type: Cytogenetic assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative
	Remarks: Information given is based on data obtained from similar substances.
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

Version 2.1     Revision Date 2022-06-07       NOAEL F1: 30 mg/kg bw/day NOAEL F1: 30 mg/kg bw/day No adverse effects expected       Isopropyl Mercaptan     Species: Rat Sex: male and female Application Route: oral gavage Dose: 10, 50, 200 mg/kg/bw Exposure time: 42 d NOAEL Parent: >= 200 mg/kg NOAEL F1: 50 mg/kg	SCENTINEL® N Gas Odo	
NOACL F1: 50 mg/kg biv/day         No adverse effects expected         Isopropyl Mercaptan       Species: Rat Sex: male and female Application Route: onal gavage Dose: 10, 50, 200 mg/kg/bw Exposure time: 42 d         Number of exposures: Daily Method: OECD Guideline 422 NOACL Parent: >= 200 mg/kg NOACL Parent: >= 200 mg/kg Number of exposures: Daily Test period: 42: 00 mg/kg Number of exposures: Daily Test period: 42: 00 mg/kg NOACL Parent: 200 mg/kg NOAEL Matemal: >= 195 ppm NOAEL Matemal: >= 195 ppm NOAEL Teratogenicity: >= 195 ppm NOAEL Taratogenicity: >= 195 ppm NOAEL Taratogenicity: >= 195 ppm NOAEL Taratogenicity: >= 195 ppm NOAEL Taratogenicity: >= 195 ppm Species: Rat Application Route: inhalation Dose: 11, 99, 155 ppm Exposure time: 200 mg/kg bw/day NOAEL Matemal: >= 00 mg/kg bw/day NOAEL Matemal: >= 00 mg/kg bw/day NOAEL Matemal: 200 mg/kg bw/day	Version 2.1	Revision Date 2022-06-07
Sex: male and female Application Route: oral gavage Dose: 10, 50, 200 mg/kg/bw Exposure time: 42 d Number of exposures: Daily Method: OECD Guideline 422 NOAEL Parent: >= 200 mg/kg NOAEL Parent: >= 200 mg/kg NOAEL present: 100 mg/kg NOAEL present: 100 mg/kg NOAEL present: 100 mg/kg NOAEL present: 100 mg/kg NOAEL frestogenicity: >= 195 ppm NOAEL Matemal: >= 195 ppm NOAEL Trestogenicity: S 0mg/kg bw/day NOAEL Trestogenicity: S 0mg/kg bw/day NOAEL Trestogenicity: S 0mg/kg bw/day NOAEL Matemal: 200 mg/kg bw/day NOAEL Matemal: 200		NOAEL F1: 50 mg/kg bw/day
Sex: male and female         Application Route: oral gavage         Dose: 10, 50, 200 mg/kg bw/d         Number of exposures: Daily         Test period: 42-50 days         Method: OECD Guideline 422         NOAEL Parent: 200 mg/kg         NOAEL F1: 50 mg/kg         Information given is based on data obtained from similar substances.         Developmental Toxicity         t-Butyl Mercaptan         Species: Mouse         Application Route: Inhalation         Doss: 11, 99, 195 ppm         Exposure time: GD 6-16         Number of exposures: 6 hrs/d         NOAEL Teratogenicity: > = 195 ppm         NOAEL Maternal: > = 195 ppm         Species: Rat         Application Route: Inhalation         Doss: 11, 99, 195 ppm         Species: Rat         Application Route: Inhalation         Doss: 11, 99, 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 Maternal: 200 mg/kg bw /day         NOAEL Teratogenicity: 50 mg/kg bw /day         NOAEL Maternal: 200 mg/kg bw /day         NOAEL Teratogenicity: 50 mg/kg bw /day	Isopropyl Mercaptan	Sex: male and female Application Route: oral gavage Dose: 10, 50, 200 mg/kg/bw Exposure time: 42 d Number of exposures: Daily Method: OECD Guideline 422 NOAEL Parent: >= 200 mg/kg NOAEL F1: 50 mg/kg Information given is based on data obtained from similar substances.
t-Butyl Mercaptan       : Species: Mouse Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD 6-16 Number of exposures: 6 hrs/d NOAEL Teratogenicity: > = 195 ppm NOAEL Maternal: > = 195 ppm         Species: Rat Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD6-19 Number of exposures: 6 hrs/d NOAEL Teratogenicity: > =195 ppm NOAEL Teratogenicity: > =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 Teratogenicity: 50 mg/kg bw /day         Isopropyl Mercaptan       Species: Rat Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: 6h/d	sec-butyl Mercaptan	Sex: male and female Application Route: oral gavage Dose: 10, 50, 200 mg/kg bw/d Number of exposures: Daily Test period: 42-50 days Method: OECD Guideline 422 NOAEL Parent: 200 mg/kg NOAEL F1: 50 mg/kg Information given is based on data obtained from similar
Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD 6-16 Number of exposures: 6 hrs/d NOAEL Teratogenicity: > = 195 ppm NOAEL Maternal: > = 195 ppmSpecies: Rat Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD6-19 Number of exposures: 6 hrs/d NOAEL Teratogenicity: > =195 ppm NOAEL Teratogenicity: > =195 ppmSpecies: 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 NOAEL Maternal: 200 mg/kg bw /dayIsopropyl MercaptanSpecies: Rat Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: 6h/d	Developmental Toxicity	
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 ppmSpecies: 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 /dayIsopropyl MercaptanSpecies: Rat Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: 6h/d	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
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 Isopropyl Mercaptan Species: Rat Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: 6h/d		Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD6-19 Number of exposures: 6 hrs/d NOAEL Teratogenicity: > =195 ppm
Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: 6h/d		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
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	Test period: GD 9 - 19 Method: OECD Guideline 414 NOAEL Teratogenicity: >= 195 ppm NOAEL Maternal: >= 195 ppm Information given is based on data obtained from similar substances.
	Species: Mouse Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: 6h/d Test period: GD 9 - 19 Method: OECD Guideline 414 NOAEL Teratogenicity: >= 195 ppm NOAEL Maternal: >= 195 ppm Information given is based on data obtained from similar substances.
sec-butyl Mercaptan	Species: Rat Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD 6-16 Number of exposures: 6 hrs/d Method: OECD Guideline 414 NOAEL Teratogenicity: > = 195 ppm NOAEL Maternal: > = 195 ppm Information given is based on data obtained from similar substances.
	Species: Mouse Application Route: Inhalation Dose: 11, 99, 195 ppm Exposure time: GD 6-16 Number of exposures: 6 hrs/d Method: OECD Guideline 414 NOAEL Teratogenicity: > = 195 ppm NOAEL Maternal: > = 195 ppm Information given is based on data obtained from similar substances.
SCENTINEL® N Gas Odorant Aspiration toxicity :	May be harmful if swallowed and enters airways.
CMR effects	
t-Butyl Mercaptan :	Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show mutagenic effects Reproductive toxicity: No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.
Isopropyl Mercaptan	Carcinogenicity: Not available Mutagenicity: In vitro 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.
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n-Propyl Mercaptan	Carcinogenicity: Not available Mutagenicity: In vitro 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., No toxicity to reproduction
SCENTINEL® N Gas Odorar Further information	<ul> <li>Solvents may degrease the skin. High concentration of vapors may cause irritation to eyes and respiratory system and produce narcotic effects.</li> </ul>
CTION 12: Ecological information	ation
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
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) semi-static test Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 203 Toxic to aquatic organisms.
sec-butyl Mercaptan	LC50: 8.5 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) static test Analytical monitoring: yes Method: OECD Test Guideline 203
Toxicity to daphnia and othe	er 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	EC50: 70 μg/l Exposure time: 48 h
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dorant		
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Species: Daphnia magna (Water fl Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 202 Very toxic to aquatic organisms.		
0.56 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) Immobilization Method: OECD Test Guideline 202 Information refers to the main ingredient.		
: EC50: 24 mg/l Exposure time: 72 h Species: Pseudokirchneriella subc Method: OECD Test Guideline 201		
ErC50: 21.9 mg/l Exposure time: 72 h Species: Pseudokirchneriella subc static test Method: OECD Test Gu		
ErC50: 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (algae) Growth inhibition Method: OECD Test Guideline 201 Information given is based on data obtained from similar substances.		
EC50: 3.4 mg/l Exposure time: 72 h Species: Pseudokirchneriella subc Growth inhibition Method: OECD T		
	4	
M-Factor (Acute Aquat. Tox.) M-Factor (Chron. Aquat. Tox.)	1 1	
M-Factor (Acute Aquat. Tox.)	10	
M-Factor (Chron. Aquat. Tox.)	10	
M-Factor (Acute Aquat. Tox.)	1	
M-Factor (Chron. Aquat. Tox.)	1	
: EC50: 880.5 mg/l		
	<ul> <li>Species: Daphnia magna (Water ff Analytical monitoring: yes Test substance: yes Method: OECD Test Guideline 202 Very toxic to aquatic organisms.</li> <li>0.56 mg/l Exposure time: 48 h Species: Daphnia magna (Water ff Immobilization Method: OECD Test Information refers to the main ingreent Method: OECD Test Guideline 207</li> <li>ErC50: 24 mg/l Exposure time: 72 h Species: Pseudokirchneriella suboc Method: OECD Test Guideline 207</li> <li>ErC50: 21.9 mg/l Exposure time: 72 h Species: Pseudokirchneriella suboc static test Method: OECD Test Guideline 207</li> <li>ErC50: 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella suboc static test Method: OECD Test Guideline 207</li> <li>ErC50: 3.4 mg/l Exposure time: 72 h Species: Pseudokirchneriella suboc Growth inhibition Method: OECD T</li> <li>Information given is based on data substances.</li> <li>EC50: 3.4 mg/l Exposure time: 72 h Species: Pseudokirchneriella suboc Growth inhibition Method: OECD T</li> <li>M-Factor (Acute Aquat. Tox.)</li> <li>M-Factor (Acute Aquat. Tox.)</li> <li>M-Factor (Acute Aquat. Tox.)</li> <li>M-Factor (Chron. Aquat. Tox.)</li> <li>M-Factor (Acute Aquat. Tox.)</li> <li>M-Factor (Chron. Aquat. Tox.)</li> <li>M-Factor (Chron. Aquat. Tox.)</li> <li>M-Factor (Chron. Aquat. Tox.)</li> </ul>	

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	Exposure time: 3 h Respiration inhibition Method: OECD Test Guideline 209
n-Propyl Mercaptan	EC50: 880.5 mg/l Exposure time: 3 h Respiration inhibition Method: OECD Test Guideline 209 Information given is based on data obtained from similar substances.
Biodegradability	
t-Butyl Mercaptan	<ul> <li>aerobic</li> <li>Result: Not readily biodegradable.</li> <li>6 %</li> <li>Testing period: 63 d</li> <li>Method: OECD Test Guideline 301</li> </ul>
Isopropyl Mercaptan	<ul> <li>aerobic</li> <li>Result: Not readily biodegradable.</li> <li>0 %</li> <li>Testing period: 28 Days</li> <li>Method: OECD Test Guideline 301D</li> </ul>
n-Propyl Mercaptan	<ul> <li>aerobic</li> <li>Result: Not readily biodegradable.</li> <li>17 %</li> <li>Testing period: 28 Days</li> <li>Method: OECD Test Guideline 301</li> </ul>
sec-butyl Mercaptan	<ul> <li>aerobic Result: Not readily biodegradable.</li> <li>6 % Testing period: 63 d Method: OECD Test Guideline 301F Information given is based on data obtained from similar substances.</li> </ul>
Bioaccumulation	
t-Butyl Mercaptan	<ul> <li>Bioconcentration factor (BCF): 12</li> <li>Method: QSAR modeled data</li> <li>This material is not expected to bioaccumulate.</li> </ul>
Isopropyl Mercaptan	: Bioconcentration factor (BCF): 6 Method: QSAR modeled data This material is not expected to bioaccumulate.
n-Propyl Mercaptan	: This material is not expected to bioaccumulate.
sec-butyl Mercaptan	: Bioconcentration factor (BCF): 12.67 Method: QSAR modeled data This material is not expected to bioaccumulate.
Mobility	
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## **SCENTINEL® N Gas Odorant**

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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).
Isopropyl Mercaptan	: Method: Calculation, Mackay Level III Fugacity Model The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
n-Propyl Mercaptan	: Method: Calculation, Mackay Level III Fugacity Model The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
sec-butyl Mercaptan	: Method: Calculation, Mackay Level III Fugacity Model The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Results of PBT assessment	
t-Butyl Mercaptan	: Non-classified PBT substance, Non-classified vPvB substance
Isopropyl Mercaptan	: Non-classified PBT substance, Non-classified vPvB substance
n-Propyl Mercaptan	: Non-classified PBT substance, Non-classified vPvB substance
Additional ecological information <b>Ecotoxicology Assessment</b>	: Very toxic to aquatic life with long lasting effects.
Chart term (caute) a sustia har	
Short-term (acute) aquatic haza t-Butyl Mercaptan	: Toxic to aquatic life.
Isopropyl Mercaptan	: Very toxic to aquatic life.
n-Propyl Mercaptan	: Very toxic to aquatic life.
sec-butyl Mercaptan	: Very toxic to aquatic life.
Long-term (chronic) aquatic ha t-Butyl Mercaptan	: Toxic to aquatic life with long lasting effects.
Isopropyl Mercaptan	: Very toxic to aquatic life with long lasting effects.
n-Propyl Mercaptan	: Very toxic to aquatic life with long lasting effects.
sec-butyl Mercaptan	: Very toxic to aquatic life with long lasting effects.

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

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

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

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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.
CTION 14: Transport informa	tion	
		wn here are for bulk shipments only, and may not apply to es (see regulatory definition).
Goods Regulations for addition etc.) Therefore, the information	onal on s	or international mode-specific and quantity-specific Dangerous shipping description requirements (e.g., technical name or names shown here, may not always agree with the bill of lading shipping npoints for the material may vary slightly between the SDS and th
	LIQ	ARTMENT OF TRANSPORTATION) QUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, 3, II
UN3336, MERCAPTANS,	LIQ N),	MARITIME DANGEROUS GOODS) QUID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, 3, II, (-18 °C c.c.), MARINE POLLUTANT, (N-PROPYL MERCAPTAN)
IATA (INTERNATIONAL AIR UN3336, MERCAPTANS, ISOPROPYL MERCAPTA	LIQ	UID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN,
UN3336, MERCAPTANS, MERCAPTAN, ISOPROP	LIQ YL N	ROUS GOODS BY ROAD (EUROPE)) WID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN), 3, II, (D/E), ENVIRONMENTALLY IERCAPTAN, ISOPROPYL MERCAPTAN)
DANGEROUS GOODS (EUR 33,UN3336, MERCAPTAN	<b>ROP</b> S, L N), 3	IQUID, FLAMMABLE, N.O.S, (TERTIARY BUTYL MERCAPTAN 8, II, ENVIRONMENTALLY HAZARDOUS, (N-PROPYL
OF DANGEROUS GOODS E UN3336, MERCAPTANS,	BY II LIQ N),	UID, FLAMMABLE, N.O.S., (TERTIARY BUTYL MERCAPTAN, 3, II, ENVIRONMENTALLY HAZARDOUS, (N-PROPYL
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TION 15: Regulatory inform	TION 15: Regulatory information		
National legislation			
SARA 311/312 Hazards	: Flammable (gases, aerosols, liquids, or solids) Respiratory or skin sensitization Serious eye damage or eye irritation		
CERCLA Reportable Quantity	: This material does not contain any components with a CERCLA RQ.		
SARA 302 Reportable Quantity	: This material does not contain any components with a SARA 302 RQ.		
SARA 302 Threshold Planning Quantity	: This material does not contain any components with a section 302 EHS TPQ.		
SARA 304 Reportable Quantity	: This material does not contain any components with a section 304 EHS RQ.		
SARA 313 Components	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.		
Potential Class	product neither contains, nor was manufactured with a Class I or II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR ubpt. A, App.A + B).		
This product does not conta Act Section 112 (40 CFR 61	in any hazardous air pollutants (HAP), as defined by the U.S. Clean Ai ).		
	in any chemicals listed under the U.S. Clean Air Act Section 112(r) for ion (40 CFR 68.130, Subpart F).		
This product does not conta Intermediate or Final VOC's	in any chemicals listed under the U.S. Clean Air Act Section 111 SOCM (40 CFR 60.489).		
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US State Regulations	
Pennsylvania Right To Know :	t-Butyl Mercaptan - 75-66-1 Isopropyl Mercaptan - 75-33-2 n-Propyl Mercaptan - 107-03-9 sec-butyl Mercaptan - 513-53-1
California Prop. 65 : Components	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
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
Switzerland CH INV United States of America (USA) TSCA Canada NDSL Other AIIC New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>quantity of the non-regulated substances.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On or in compliance with the active portion of the TSCA inventory</li> <li>This product contains one or several components listed in the Canadian NDSL.</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported amount does not exceed the minimum threshold quantity of the non-registered substance(s).</li> </ul>
Philippines PICCS Taiwan TCSI China IECSC	<ul> <li>Not in compliance with the inventory</li> <li>On the inventory, or in compliance with the inventory</li> <li>Not in compliance with the inventory</li> </ul>

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

NFPA Classification	: Health Hazard: 2 Fire Hazard: 3 Reactivity Hazard: 0	2 0
Further information		
Legacy SDS Number	: 99720	

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

# SCENTINEL® N Gas Odorant

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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%		