### SAFETY DATA SHEET



## Scentinel® U

Version 2.0

Revision Date 2021-08-13

Product information         Product Name       :: Scentinel® U         Material       :: 1124494, 1124460         Company       :: Chevron Phillips Chemical Company LP         :: 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       EUROPE: BIG +321:4584545 (hone) or +321:4583516 (telefax)         Mexico CHEMTREC 01-800-681-9531 (24 hours)       South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600         Argenina: +(54)-1159839431       Responsible Department       :: Product Safety and Toxicology Group         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 I 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, includin the oxidation of rusting pipes, adsorption into or sticking onto the interior of pipes or appliances, or absorption into liquids.         • Ontor inthe soli i	TION 1: Identification	of the substance/mixture and of the company/undertaking
Product Name       ::       Scentinel® U         Material       ::       1124494, 1124460         Company       ::       1124494, 1124460         Company       ::       Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380         Emergency telephone:       Health:       866.442.9828 (North America) 1.832.813.4984 (International) Transport:         Transport:       CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) 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         Responsible Department       ::       Product Safety and Toxicology Group E-mail address         E-mail address       ::       SDS@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 I 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, includin 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 dim		
Material       : 1124494, 1124460         Company       :: Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380         Emergency telephone:	Product information	
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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax) 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         Responsible Department       : Product Safety and Toxicology Group E-mail address         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 I 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, includin 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 us • The stench of odorized gas may not awaken sleeping persons.		
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         EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)         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         Responsible Department       : Product Safety and Toxicology Group         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 I 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, includin 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, gend	Company	10001 Six Pines Drive
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         EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)         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         Responsible Department       : Product Safety and Toxicology Group         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 I 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, includin 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/tobacc	Emergency telephon	»:
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 l 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 us • The stench of odorized gas may not awaken sleeping persons.	866.442.9628 (Nor 1.832.813.4984 (In <b>Transport</b> : CHEMTREC 800.4 Asia: CHEMWATC EUROPE: BIG +32 Mexico CHEMTRE South America SO	ernational) 24.9300 or 703.527.3887(int'l) H (+612 9186 1132) China: 0532 8388 9090 .14.584545 (phone) or +32.14583516 (telefax) C 01-800-681-9531 (24 hours) S-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
<ul> <li>A GAS LEAK CAN CAUSE A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH.</li> <li>Be aware that the stenching chemical added to gas to make it detectable may not warn of a gas I or the presence of propane or natural gas to all persons in every instance.</li> <li>Instances where the odorant in an odorized gas may be undetectable include:</li> <li>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.</li> <li>Contact with soil in underground leaks may de-odorize or remove odorant from the gas.</li> <li>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 us.</li> </ul>	E-mail address	: SDS@CPChem.com
<ul> <li>DEATH.</li> <li>Be aware that the stenching chemical added to gas to make it detectable may not warn of a gas lor the presence of propane or natural gas to all persons in every instance.</li> <li>Instances where the odorant in an odorized gas may be undetectable include:</li> <li>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.</li> <li>Contact with soil in underground leaks may de-odorize or remove odorant from the gas.</li> <li>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 us.</li> </ul>	ODOR-FADE WARNI	١G
<ul> <li>or the presence of propane or natural gas to all persons in every instance.</li> <li>Instances where the odorant in an odorized gas may be undetectable include:</li> <li>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.</li> <li>Contact with soil in underground leaks may de-odorize or remove odorant from the gas.</li> <li>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 use.</li> </ul>		USE A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR
<ul> <li>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.</li> <li>Contact with soil in underground leaks may de-odorize or remove odorant from the gas.</li> <li>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 use</li> <li>The stench of odorized gas may not awaken sleeping persons.</li> </ul>		
<ul> <li>the oxidation of rusting pipes, adsorption into or sticking onto the interior of pipes or appliances, or absorption into liquids.</li> <li>Contact with soil in underground leaks may de-odorize or remove odorant from the gas.</li> <li>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 us.</li> <li>The stench of odorized gas may not awaken sleeping persons.</li> </ul>	Instances where the c	dorant in an odorized gas may be undetectable include:
S Number:100000104262 1/20	the oxidation of rusting absorption into liquids • Contact with soil in u • Some people have a affect a person's sens	pipes, adsorption into or sticking onto the interior of pipes or appliances, or nderground leaks may de-odorize or remove odorant from the gas. diminished ability, or inability to smell the stench. Factors that negatively e of smell include age, gender, medical conditions, and alcohol/tobacco usage
	Number:1000001042	1/20

centinel® U	SAFETY DATA SHE
ersion 2.0	Revision Date 2021-08-
<ul> <li>Other odors may mask or h</li> <li>Exposure to the odor for ex no longer smell the stench.</li> </ul>	nide the stench. /en a short period of time, may cause nasal fatigue, where a person ca
safety for detecting gas leak an adequate warning. Gas d depend on sense of smell. E their sense of smell, we reco	Underwriters Laboratories (UL) can be used as an extra measure of s, especially under conditions where the odorant alone may not provide letectors emit a loud, shrill sound when gas is present and do not Because the odor intensity can fade or people may have problems with ommend installing, per manufacturer's instructions, one or more n suitable locations to ensure adequate coverage to detect gas leaks.
	oyees, and your customers with the content of this warning and other ith the so-called "odor-fade phenomenon."
CTION 2: Hazards identificat	tion
	ance or mixture ified in accordance with the hazard communication standard 29 CFR els contain all the information as required by the standard.
Classification	: Flammable liquids, Category 2 Serious eye damage, Category 1 Skin sensitization, Category 1
Labeling	
Symbol(s)	
Signal Word	: Danger
Hazard Statements	<ul> <li>H225: Highly flammable liquid and vapor.</li> <li>H317: May cause an allergic skin reaction.</li> <li>H318: Causes serious eye damage.</li> </ul>
Precautionary Statements	<ul> <li>Prevention:</li> <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>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 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.</li> </ul>

SAFETY DATA SHEET

entinel® U		SAFETY DATA SHE
rsion 2.0		Revision Date 2021-08-
	advice/ attention. P363 Wash contamina P370 + P378 In case of alcohol-resistant foam to <b>Storage:</b> P403 + P235 Store in a <b>Disposal:</b>	itation or rash occurs: Get medical ted clothing before reuse. of fire: Use dry sand, dry chemical or extinguish. a well-ventilated place. Keep cool. nts/ container to an approved waste
Carcinogenicity:		
IARC NTP	equal to 0.1% is identified a human carcinogen by IARC No ingredient of this produc	ct present at levels greater than or as probable, possible or confirmed C. ct present at levels greater than or as a known or anticipated carcinogen
	ormation on ingredients	
Component Diethyl Sulfide t-Butyl Mercaptan Ethyl Mercaptan	CAS-No. 352-93-2 75-66-1	Weight % 77 - 84 13 - 17 4 - 6
Diethyl Sulfide	CAS-No. 352-93-2 75-66-1 75-08-1	77 - 84
Diethyl Sulfide t-Butyl Mercaptan Ethyl Mercaptan	CAS-No. 352-93-2 75-66-1 75-08-1 es : Move out of dangerous a material safety data shee	77 - 84 13 - 17
Diethyl Sulfide t-Butyl Mercaptan Ethyl Mercaptan CTION 4: First aid measure	CAS-No. 352-93-2 75-66-1 75-08-1 es : Move out of dangerous a material safety data shee may produce a serious, p swallowed or vomited.	77 - 84 13 - 17 4 - 6 rea. Consult a physician. Show this to the doctor in attendance. Material potentially fatal pneumonia if ecovery position and seek medical
Diethyl Sulfide t-Butyl Mercaptan Ethyl Mercaptan CTION 4: First aid measure General advice	CAS-No. 352-93-2 75-66-1 75-08-1 es : Move out of dangerous a material safety data shee may produce a serious, p swallowed or vomited. : If unconscious, place in r advice. If symptoms pers	77 - 84         13 - 17         4 - 6         rea. Consult a physician. Show this et to the doctor in attendance. Material potentially fatal pneumonia if         ecovery position and seek medical sist, call a physician.         call a physician. If on skin, rinse well
Diethyl Sulfide t-Butyl Mercaptan Ethyl Mercaptan CTION 4: First aid measure General advice	CAS-No. 352-93-2 75-66-1 75-08-1 es : Move out of dangerous a material safety data shee may produce a serious, p swallowed or vomited. : If unconscious, place in r advice. If symptoms pers : If skin irritation persists, c with water. If on clothes, : Small amounts splashed tissue damage and blindir rinse immediately with pla advice. Continue rinsing Remove contact lenses.	77 - 84         13 - 17         4 - 6         rea. Consult a physician. Show this et to the doctor in attendance. Material potentially fatal pneumonia if         ecovery position and seek medical sist, call a physician.         call a physician. If on skin, rinse well

Version 2.0

SAFETY DATA SHEET

Revision Date 2021-08-13

SECTION 5: Firefighting measu	res	
Flash point	:	<10°C (<50°F) Method: ASTM D 93
Suitable extinguishing media	:	Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media	:	High volume water jet.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
Fire and explosion protection	:	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.
<b>SECTION 6: Accidental release</b>	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).
SECTION 7: Handling and stora	ige	
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
Advice on safe handling SDS Number:100000104262	:	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

centinel® U			SAF	ETY DATA SHEE
			Povicio	on Date 2021-08-1
	exhaust exhaust be under on a met local and sensitiza recurrent	in work rooms ventilation hoc pressure. To al tray. Dispo I national regu tion problems t respiratory di	vide sufficient air exchang c. Container may be open od. Open drum carefully a o avoid spills during handli se of rinse water in accor lations. Persons suscept or asthma, allergies, chro isease should not be emp nixture is being used.	ed only under as content may ing keep bottle dance with ible to skin onic or
Advice on protection against fire and explosion	Take neo (which m explosion	cessary action hight cause ign	ed flame or any incandeso to avoid static electricity nition of organic vapors). nent. Keep away from op of ignition.	discharge Use only
Storage				
Requirements for storage areas and containers	ventilate carefully Observe	d place. Conta resealed and label precauti	ntainer tightly closed in a ainers which are opened kept upright to prevent lea ons. Electrical installation with the technological sa	must be akage. ns / working
CTION 8. Exposure contro	ols/personal pro	tection		
Ingredients with workpl	ace control para			
Ingredients with workpl	ace control para	ameters	Control parameters	Note
Ingredients with workplate evron Phillips Chemical Company Components Butyl Mercaptan	ace control para		Control parameters 0.5 ppm,	Note
Ingredients with workplane nevron Phillips Chemical Compan Components Butyl Mercaptan	ace control para	value		Note
Ingredients with workplane nevron Phillips Chemical Company Components Butyl Mercaptan Components	ace control para ay LP Basis Manufacturer Basis ACGIH	Value TWA Value TWA	0.5 ppm, Control parameters 0.5 ppm,	
Ingredients with workplate evron Phillips Chemical Company Components Butyl Mercaptan Components	ace control para	Value TWA	0.5 ppm, Control parameters	
Ingredients with workplanewron Phillips Chemical Compan Components Butyl Mercaptan Components Ethyl Mercaptan Immediately Dangerous	ace control para by LP Basis Manufacturer Basis ACGIH OSHA Z-1 OSHA Z-1-A	Value TWA Value TWA C TWA h Concentrat	0.5 ppm, Control parameters 0.5 ppm, 10 ppm, 25 mg/m3 0.5 ppm, 1 mg/m3	
Ingredients with workplate nevron Phillips Chemical Compare Components Butyl Mercaptan Components Ethyl Mercaptan Immediately Dangerous ubstance name	ace control para by LP Basis Manufacturer Basis ACGIH OSHA Z-1 OSHA Z-1-A to Life or Healt	Value TWA Value TWA C TWA h Concentrat	0.5 ppm, Control parameters 0.5 ppm, 10 ppm, 25 mg/m3 0.5 ppm, 1 mg/m3 ions (IDLH) Control parameters Dangerous to Life or Health on Value	Note
nevron Phillips Chemical Compan Components -Butyl Mercaptan S Components Ethyl Mercaptan	ace control para by LP Basis Manufacturer Basis ACGIH OSHA Z-1 OSHA Z-1-A to Life or Healt CAS-No.	Value TWA Value TWA C TWA h Concentrat	0.5 ppm, Control parameters 0.5 ppm, 10 ppm, 25 mg/m3 0.5 ppm, 1 mg/m3 ions (IDLH) Control parameters Dangerous to Life or Health on Value	Update
Ingredients with workplate nevron Phillips Chemical Compare Components Butyl Mercaptan Components Ethyl Mercaptan Immediately Dangerous ubstance name thyl Mercaptan	ace control para by LP Basis Manufacturer Basis ACGIH OSHA Z-1 OSHA Z-1-A to Life or Healt CAS-No. 75-08-1 Dentrol airborned c zards of this material, should read and	Value TWA Value TWA C TWA C TWA h Concentrations being concentrations concentrati	0.5 ppm,         Control parameters         0.5 ppm,         10 ppm, 25 mg/m3         0.5 ppm, 1 mg/m3         ions (IDLH)         Control parameters         Dangerous to Life or Health on Value er million         below the exposure guide ion 2), applicable exposu designing engineering cor or work practices are not a protective equipment liste Il instructions and limitatic	Note         Update         1995-03-01         elines/limits.         re limits, job         htrols and selecting         adequate to prever         adequate to prever         adelow is         ons supplied with
Ingredients with workplate ingredients with workplate ingredients with workplate ingrediately Components ingrediately Dangerous ingrediately Dang	ace control para by LP Basis Manufacturer Basis ACGIH OSHA Z-1 OSHA Z-1-A to Life or Healt CAS-No. 75-08-1 ontrol airborned c zards of this mate ances in the worl ment. If enginee s of this material, should read and ection is usually p	Value TWA Value TWA C TWA C TWA h Concentrations being concentrations concentrati	0.5 ppm,         Control parameters         0.5 ppm,         10 ppm, 25 mg/m3         0.5 ppm, 1 mg/m3         ions (IDLH)         Control parameters         Dangerous to Life or Health on Value er million         below the exposure guide ion 2), applicable exposu designing engineering cor or work practices are not a protective equipment liste Il instructions and limitatic	Note         Update         1995-03-01         elines/limits.         re limits, job         htrols and selecting         adequate to prever         adequate to prever         adelow is         ons supplied with

5/20

SDS Number:100000104262

entinel® U		
sion 2.0		Revision Date 2021-08
		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, 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.
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. Complete head face and neck protection. Rubber apron. Footwear protecting against chemicals.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
CTION 9: Physical and che	mical	properties
Information on basic phy	sical	and chemical properties
Appearance		
Form Physical state Color Odor Odor Threshold		<ul> <li>liquid</li> <li>liquid</li> <li>Clear With No Particulate Matter</li> <li>Pungent</li> <li>No data available</li> </ul>
Safety data		
<b>Safety data</b> Flash point	:	: <10°C (<50°F) Method: ASTM D 93
-	:	
Flash point		Method: ASTM D 93
Flash point Ignition temperature	:	Method: ASTM D 93 Remarks: No data available
Flash point Ignition temperature Lower explosion limit	:	Method: ASTM D 93 Remarks: No data available No data available
Flash point Ignition temperature Lower explosion limit Upper explosion limit	:	Method: ASTM D 93 Remarks: No data available No data available No data available

SAFETY DATA SHEET

Version 2.0

Revision Date 2021-08-13

Melting point/range	No data available
Pour point	No data available
Initial boiling point and boiling range	: 69.8°C (157.6°F)
Vapor pressure	: : 0.58 bar at 20°C (68°F) No data available
Relative density	: 0.836
Density	: 0.836 G/ML at 15.6°C (60.1°F)
Water solubility	: Insoluble
Partition coefficient: n-	: No data available
octanol/water Solubility in other solvents	: Soluble in hydrocarbons
Viscosity, kinematic	: 0.36 cSt
Relative vapor density	: No data available
Evaporation rate	: No data available
SECTION 10: Stability and reactive	vity
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 reactions

Hazardous reactions	:	Hazardous reactions: Vapors may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Other data	:	No decomposition if stored and applied as directed.

SDS Number:100000104262

#### SAFETY DATA SHEET

## Scentinel® U

**SECTION 11: Toxicological information** 

Version 2.0

Revision Date 2021-08-13

Scentinel® U Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg
·····,	Method: Calculation method
Scentinel® U Acute inhalation toxicity	: Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method
Scentinel® U Acute dermal toxicity	: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Scentinel® U Skin irritation	: May irritate skin. largely based on animal evidence.
Scentinel® U Eye irritation	: Risk of serious damage to eyes.
Scentinel® U Sensitization	: Causes sensitization. largely based on animal evidence.
Repeated dose toxicity	
Diethyl Sulfide	<ul> <li>Species: Rat, male and female Sex: male and female Application Route: oral gavage Dose: 0, 2.5, 25, 250 mg/kg/bw/d Exposure time: 14 wk Number of exposures: 7 d/wk Method: OCED Guideline 408 No adverse effects expected Information given is based on data obtained from similar substances.</li> </ul>
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

	SAFETY DATA SHEET
Scentinel® U	
Version 2.0	Revision Date 2021-08-13
	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.
Ethyl Mercaptan	Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 25, 100, 400 ppm Exposure time: 13 wks Number of exposures: 6 hr/d, 5 d/wk NOEL: 100 ppm Lowest observable effect level: 400 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar substances.

Version 2.0       Species: Rat, Male and female         Sex: Male and female       Application Route: Oral         Dose: 0, 10, 50, 200 mg/kg       Exposure time: 42-53 days         NOEL: 50 mg/kg       Method: OECD Guideline 422         Information given is based on data obtained from similar substances.       Species: Rat, Male and female         Sex: Male and female       Sex: Male and female         Mothod: OECD Test Guideline 413 </th <th>Coontinol@11</th> <th>SAFETY DATA SHEET</th>	Coontinol@11	SAFETY DATA SHEET
Species: Rat, Male and female Sex: Male and female Application Route: Oral Dose: 0, 10, 50, 200 mg/kg Exposure time: 42-53 days NOEL: 50 mg/kg Method: OECD Guideline 422 Information given is based on data obtained from similar substances. Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 9, 77, 186 ppm Exposure time: 13 wks Number of exposures: 6 hr/d, 5 d/wk NOEL: >= 196 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar substances. Species: Rat, Male and female Sex: Sex: Sex: Sex: Sex: Sex: Sex: Sex:	Scentinel® U	Devision Data 0004 00 40
Species: Rat, Male and female         Sex: Male and female         Application Route: Inhalation         Dese: 0.03, 0.26, 0.55 mg/L         Exposure time: 13 wks         Number of exposures: 6 hr/d, 5 d/wk         NGE: 0.03 mg/l         Method: OECD Test Guideline 413         Information given is based on data obtained from similar substances.         Diethyl Sulfide       * Test Type: Ames test         Method: OECD Test Guideline 471         Result: megative         Remarks: Information given is based on data obtained from similar substances.	Version 2.0	Sex: Male and female Application Route: Oral Dose: 0, 10, 50, 200 mg/kg Exposure time: 42-53 days NOEL: 50 mg/kg Method: OECD Guideline 422 Information given is based on data obtained from similar substances. 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 hr/d, 5 d/wk NOEL: >=196 ppm Method: OECD Guideline 413 Information given is based on data obtained from similar
Diethyl Sulfide       : Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: Information given is based on data obtained from similar substances.		Species: Rat, Male and female Sex: Male and female Application Route: Inhalation Dose: 0.03, 0.26, 0.55 mg/L Exposure time: 13 wks Number of exposures: 6 hr/d, 5 d/wk NOEL: 0.03 mg/l Method: OECD Test Guideline 413 Information given is based on data obtained from similar
Diethyl Sulfide       : Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: Information given is based on data obtained from similar substances.	Genotoxicity in vitro	
	-	Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: Information given is based on data obtained from
SDS Number:100000104262 10/20	SDS Number:100000104262	10/20

entinel® U	SAFETY DATA SI
rsion 2.0	Revision Date 2021-
	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Remarks: Information given is based on data obtained from similar substances.
	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Guideline 473 Result: negative Remarks: Information given is based on data obtained from similar substances.
	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 476 Result: negative Remarks: Information given is based on data obtained from similar substances.
t-Butyl Mercaptan	Test Type: Mouse lymphoma assay Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation Result: negative
	Test Type: Ames test Metabolic activation: with and without metabolic activation Result: negative
Ethyl Mercaptan	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: Mutagenicity (Escherichia coli - reverse mutation assay) Result: negative
	Test Type: Mouse lymphoma assay Method: OECD Guideline 476 Result: Ambiguous
	Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation Result: positive
Genotoxicity in vivo	
Diethyl Sulfide	<ul> <li>Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Route of Application: Oral Method: OECD Test Guideline 474 Result: negative Remarks: Information given is based on data obtained from similar substances.</li> </ul>
t-Butyl Mercaptan	Test Type: Mouse micronucleus assay
S Number:100000104262	11/20

entinel® U	SAFETY DATA SH	
sion 2.0	Revision Date 2021-0	
	Species: Mouse Dose: 1250, 2500, 5000 mg/kg Method: Mutagenicity (micronucleus test) Result: negative	
Ethyl Mercaptan	Test Type: Micronucleus test Species: Mouse Method: Mutagenicity (micronucleus test) 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 F1: 50 mg/kg bw/day No adverse effects expected	
Ethyl Mercaptan	Species: Rat Sex: male and female Application Route: Oral diet Dose: 0, 10, 50, 200 mg/kg Exposure time: 42-53 days Number of exposures: once 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.	
Developmental Toxicity		
Diethyl Sulfide	: Species: Rat Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: GD 6 -19 Number of exposures: Daily Test period: 20 d Method: OECD Guideline 414 NOAEL Teratogenicity: 1,000 mg/kg NOAEL Maternal: 1,000 mg/kg No adverse effects expected 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	
Number:100000104262	12/20	

centinel® U	SAFETY DATA SHEI
ersion 2.0	Revision Date 2021-08-
	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
Ethyl Mercaptan	Species: Rat Application Route: Inhalation Dose: 0, 0.037, 0.28, or 0.56 mg/L Number of exposures: 6 hrs/d Test period: GD 6-19 Method: OECD Guideline 414 NOAEL Teratogenicity: > 0.56 mg/l Information given is based on data obtained from similar substances.
	Species: Rat Application Route: Inhalation Dose: 0, 10, 100, 200 ppm Number of exposures: 6 hrs/d Test period: GD 6-19 Method: OECD Guideline 414 NOAEL Teratogenicity: > 200 ppm NOAEL Maternal: > 200 ppm Information given is based on data obtained from similar substances.
Scentinel® U Aspiration toxicity	: May be harmful if swallowed and enters airways.
CMR effects	
Diethyl Sulfide	<ul> <li>Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show mutagenic effects Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Not available</li> </ul>
t-Butyl Mercaptan	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
Ethyl Mercaptan	Carcinogenicity: Not available Mutagenicity: Not mutagenic in Ames Test.
OS Number:100000104262	13/20

entinel® U	SAFETY DATA SHEE		
rsion 2.0	Revision Date 2021-08-		
	Teratogenicity: Animal testing did not show any effects on fetal development. Reproductive toxicity: Animal testing did not show any effects on fertility.		
Scentinel® U Further information	Solvents may degrease the skin. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.		
CTION 12: Ecological inform	nation		
Toxicity to fish			
Diethyl Sulfide	<ul> <li>LC50: &gt; 49.8 mg/l Exposure time: 96 h Species: Danio rerio (Zebra Fish) semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar substances.</li> </ul>		
t-Butyl Mercaptan	LC50: 34 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) semi-static test Method: OECD Test Guideline 203		
Ethyl Mercaptan	2.4 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) Method: OECD Test Guideline 203		
Toxicity to daphnia and ot	her aquatic invertebrates		
Diethyl Sulfide	: EC50: 16 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Information given is based on data obtained from similar substances.		
t-Butyl Mercaptan	EC50: 6.7 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202		
Ethyl Mercaptan	EC50: < 0.1 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202		
Toxicity to algae			
Diethyl Sulfide	<ul> <li>EC50: &gt; 59.3 mg/l</li> <li>Exposure time: 72 h</li> <li>Species: Pseudokirchneriella subcapitata (green algae)</li> <li>Method: OECD Test Guideline 201</li> </ul>		
S Number:100000104262	14/20		

entinel® U			
sion 2.0		Revision Date 2021-0	
	Information given is based on dat substances.	ta obtained from similar	
t-Butyl Mercaptan	EC50: 24 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) Method: OECD Test Guideline 201		
Ethyl Mercaptan	EC50: 3 mg/l Exposure time: 72 h Species: Pseudokirchneriella sub Method: OECD Test Guideline 20		
M-Factor diethyl sulphide	: M-Factor (Acute Aquat. Tox.)	1	
	M-Factor (Chron. Aquat. Tox.)	1	
<b>M-Factor</b> ethanethiol	: M-Factor (Acute Aquat. Tox.)	10	
	M-Factor (Chron. Aquat. Tox.)	10	
<b>Toxicity to bacteria</b> Diethyl Sulfide	: EC50: > 1,000 mg/l Exposure time: 3 h		
	Respiration inhibition Method: OECD Test Guideline 20	09	
Biodegradability			
Diethyl Sulfide	: aerobic Result: Not readily biodegradable 41 % Testing period: 28 d Method: OECD Test Guideline 30 Information given is based on dat substances.	01D	
t-Butyl Mercaptan	6 % Testing period: 63 d	Result: Not readily biodegradable. 6 %	
Ethyl Mercaptan	: aerobic Result: Not readily biodegradable 0 % Testing period: 29 d Method: OECD Test Guideline 30		
Bioaccumulation			
Number:100000104262	15/20		

Scentinel® U	SAFETY DATA SHEET
Version 2.0	Revision Date 2021-08-13
Diethyl Sulfide	: This material is not expected to bioaccumulate.
t-Butyl Mercaptan	: Bioconcentration factor (BCF): 12 Bioaccumulation is unlikely.
Ethyl Mercaptan	: This material is not expected to bioaccumulate.
Mobility	
Diethyl Sulfide	: No data available
t-Butyl Mercaptan	: The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Ethyl Mercaptan	: The product will be dispersed amongst the various environmental compartments (soil/ water/ air).
Results of PBT assessment Diethyl Sulfide	: Non-classified PBT substance, Non-classified vPvB substance
t-Butyl Mercaptan	: Non-classified PBT substance, Non-classified vPvB substance
Ethyl 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.
Short-term (acute) aquatic haz Diethyl Sulfide	ard : Harmful to aquatic life.
t-Butyl Mercaptan	: Toxic to aquatic life.
Ethyl Mercaptan	: Very toxic to aquatic life.
Long-term (chronic) aquatic ha Diethyl Sulfide	azard : Harmful to aquatic life with long lasting effects.
t-Butyl Mercaptan	: Toxic to aquatic life with long lasting effects.
Ethyl Mercaptan	: Very toxic to aquatic life with long lasting effects.
SECTION 13: Disposal considera	itions
	ertains only to the product as shipped.
Use material for its intended p may meet the criteria of a haz other State and local regulatio regulated components may be	urpose or recycle if possible. This material, if it must be discarded, ardous waste as defined by US EPA under RCRA (40 CFR 261) or ns. Measurement of certain physical properties and analysis for e necessary to make a correct determination. If this material is te, federal law requires disposal at a licensed hazardous waste
Product	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or
SDS Number:100000104262	16/20

Scentinel® U	SAFETY DATA SHEET
Version 2.0	Revision Date 2021-08-13
	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	on
	own here are for bulk shipments only, and may not apply to ges (see regulatory definition).
Goods Regulations for additiona etc.) Therefore, the information	ic or international mode-specific and quantity-specific Dangerous al shipping description requirements (e.g., technical name or names, shown here, may not always agree with the bill of lading shipping shpoints for the material may vary slightly between the SDS and the
UN3336, MERCAPTAN MIX	E <b>PARTMENT OF TRANSPORTATION)</b> (TURE, LIQUID, FLAMMABLE, N.O.S., (DIETHYL SULFIDE, PTAN), 3, II, MARINE POLLUTANT, (ETHYL MERCAPTAN)
UN3336, MERCAPTAN MIX	<b>. MARITIME DANGEROUS GOODS)</b> (TURE, LIQUID, FLAMMABLE, N.O.S., (DIETHYL SULFIDE, PTAN), 3, II, (<10°C), MARINE POLLUTANT, (TERTIARY BUTYL (CAPTAN)
IATA (INTERNATIONAL AIR T UN3336, MERCAPTAN MIX TERTIARY BUTYL MERCAI	TURE, LIQUID, FLAMMABLE, N.O.S., (DIETHYL SULFIDE,
UN3336, MERCAPTAN MIX TERTIARY BUTYL MERCAI	GEROUS GOODS BY ROAD (EUROPE)) (TURE, LIQUID, FLAMMABLE, N.O.S., (DIETHYL SULFIDE, PTAN), 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, APTAN, ETHYL MERCAPTAN)
DANGEROUS GOODS (EURO UN3336, MERCAPTAN MIXT	TURE, LIQUID, FLAMMABLE, N.O.S., (DIETHYL SULFIDE, TAN), 3, II, ENVIRONMENTALLY HAZARDOUS, (TERTIARY
OF DANGEROUS GOODS BY UN3336, MERCAPTAN MIX	TURE, LIQUID, FLAMMÁBLE, N.O.S., (DIETHYL SULFIDE, PTAN), 3, II, ENVIRONMENTALLY HAZARDOUS, (TERTIARY
SDS Number:100000104262	17/20

SDS Number:100000104262

#### SAFETY DATA SHEET

Version 2.0

Revision Date 2021-08-13

TION 15: Regulatory inform	nation
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.
Clean Air Act	
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 contai Act Section 112 (40 CFR 61	n any hazardous air pollutants (HAP), as defined by the U.S. Clean ).
The following chemical(s) ar Release Prevention (40 CFF	e listed under the U.S. Clean Air Act Section 112(r) for Accidental 8 68.130, Subpart F): : Ethyl Mercaptan - 75-08-1
This product does not contai Intermediate or Final VOC's	n any chemicals listed under the U.S. Clean Air Act Section 111 SO (40 CFR 60.489).

18/20

Version 2.0

Revision Date 2021-08-13

SAFETY DATA SHEET

Version 2.0	Revision Date 2021-08-13
US State Regulations	
Pennsylvania Right To Know :	Diethyl Sulfide - 352-93-2 t-Butyl Mercaptan - 75-66-1 Ethyl Mercaptan - 75-08-1
Notification status Europe REACH	: This mixture contains only ingredients which have been registered according to Regulation (EU) No. 1907/2006
Switzerland CH INV United States of America (USA) TSCA	<ul> <li>(REACH).</li> <li>On the inventory, or in compliance with the inventory</li> <li>All substances listed as active on the TSCA inventory</li> </ul>
Canada DSL Australia AICS	<ul> <li>All components of this product are on the Canadian DSL</li> <li>On the inventory, or in compliance with the inventory</li> </ul>
New Zealand NZIoC Japan ENCS Korea KECI	<ul> <li>On the inventory, or 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> <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 China IECSC Taiwan TCSI	<ul> <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> </ul>
SECTION 16: Other information	
NFPA Classification :	Health Hazard: 3 Fire Hazard: 3 Reactivity Hazard: 0
Further information	
Significant changes since the la previous versions.	st version are highlighted in the margin. This version replaces all
The information in this SDS per	tains only to the product as shipped.
SDS Number:100000104262	19/20

#### SAFETY DATA SHEET

Version 2.0

Revision Date 2021-08-13

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.

۲	Key or legend to abbreviations and a	cronyms used	d in the safety data sheet
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit
IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		