# Chevron Phillips CHEMICAL

### Sulfole® 120 Mercaptan (tert-Dodecanethiol)

Version 2.13

Revision Date 2022-06-07

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

#### **Product information**

SAFETY DATA SHEET

Product Name : Material :	Sulfole® 120 Mercaptan (tert-Dodecanethiol) 1124727, 1124726, 1121184, 1113774, 1017942, 1111452, 1024818, 1024817, 1103990, 1084934, 1101771, 1086417, 1086418, 1021548, 1036536, 1035962, 1021538, 1021539, 1021542, 1021543, 1021544, 1021546, 1021547, 1021550, 1021551, 1021552, 1021553, 1021719, 1032613, 1021545, 1021549, 10462848
Company :	Chevron Phillips Chemical Company LP 10001 Six Pines Drive The Woodlands, TX 77380
Emergency telephone:	
Mexico CHEMTREC 01-800 South America SOS-Cotec II Argentina: +(54)-115983943 EUROPE: BIG +32.14.58454 Austria: VIZ +43 1 406 43 43 Belgium: 070 245 245 (24 ho Bulgaria: +359 2 9154 233 Croatia: +359 2 9154 233 Croatia: +3851 2348 342 (24 Cyprus: 1401 Czech Republic: Toxicologic Denmark: Danish Poison Ce Estonia: BIG +32.14.584545 Finland: 0800 147 111 09 4 France: ORFILA number (IN Germany: BIG +32.14.584545 Greece: (0030) 2107793777 Hungary: +36-80-201-199 (2 Iceland: 543 2222 (24 hours/ Ireland: BIG +32.14.584545	al) or 703.527.3887(int'l) 0186 1132) China: 0532 8388 9090 -681-9531 (24 hours) nside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 1 45 (phone) or +32.14583516 (telefax) 8 (24 hours/day, 7 days/week) 5 (24 hours/day, 7 days/week) 4 hours/day, 7 days/week) 4 hours/day, 7 days/week) 5 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day) RS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week) 45 (phone) or +32.14583516 (telefax) 71 977 (24 hours/day, 7 days/week) 24 hours/day, 7 days/week)
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# Sulfole® 120 Mercaptan (tert-Dodecanethiol)

### Version 2.13

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Poisoning and Drug Info 67042473. (24 hours.) Liechtenstein: BIG +32.14 Lithuania: +370 (85) 2362 Luxembourg: (+352) 8002 Malta: +356 2395 2000 The Netherlands: NVIC: - Norway: 22 59 13 00 (24 Poland: BIG +32.14.5845 Portugal: CIAV phone nu Romania: +40213183606 Slovakia: +421 2 5477 41 Slovenia: Phone number	2 5500 (24 hours/day, 7 days/week) +31 (0)88 755 8000 hours/day, 7 days/week) 545 (phone) or +32.14583516 (telefax) mber: +351 800 250 250 5 166 : 112 cy Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24
Responsible Department E-mail address Website	<ul> <li>Product Safety and Toxicology Group</li> <li>SDS@CPChem.com</li> <li>www.CPChem.com</li> </ul>
SECTION 2: Hazards identificat	lion
Classification	<ul> <li>Skin irritation, Category 2</li> <li>Eye irritation, Category 2A</li> <li>Skin sensitization, Sub-category 1B</li> </ul>
Symbol(s)	
Signal Word	: Warning
Hazard Statements	<ul> <li>H315: Causes skin irritation.</li> <li>H317: May cause an allergic skin reaction.</li> <li>H319: Causes serious eye irritation.</li> </ul>
Precautionary Statements	<ul> <li>Prevention:</li> <li>P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</li> <li>P264 Wash skin thoroughly after handling.</li> <li>P280 Wear protective gloves/ eye protection/ face protection.</li> <li>Response:</li> <li>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</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</li> </ul>
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	advice/ attention. P337 + P313 If eye irritation persists: Get medical ac attention.	dvice/
	P362 Take off contaminated clothing and wash befor <b>Disposal:</b>	e reuse
	P501 Dispose of contents/ container to an approved disposal plant.	waste
Carcinogenicity:		
IARC	No ingredient of this product present at levels greater tha equal to 0.1% is identified as probable, possible or confir	
NTP	human carcinogen by IARC. No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	
TION 3: Composition/info	ormation on ingredients	
Synonyms	: TDM Tertiary Dodecyl Mercaptan Tert Dodecyl Mercaptan	
Molecular formula	: UVCB	
Component	CAS-No. Weight %	
tert-Dodecanethiol	25103-58-6 90 - 100	
TION 4: First aid measure	es	
General advice	: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.	
If inhaled	<ul> <li>If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.</li> </ul>	
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rins with water. If on clothes, remove clothes.	se well
In case of eye contact	<ul> <li>Immediately flush eye(s) with plenty of water. Remove lenses. Protect unharmed eye. Keep eye wide open w rinsing. If eye irritation persists, consult a specialist.</li> </ul>	
If swallowed	: Keep respiratory tract clear. If symptoms persist, call a physician. Take victim immediately to hospital.	l
	sures	
TION 5: Firefighting meas		
TION 5: Firefighting mean	: 98-110°C (208-230°F) Method: closed cup	

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Autoignition temperature	: 198-230°C (388-446°F)
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.
Fire and explosion protection	: Normal measures for preventive fire protection.
Hazardous decomposition products	: Carbon oxides. Sulfur oxides.
TION 6: Accidental release	measures
Personal precautions	: Use personal protective equipment. Ensure adequate ventilation.
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	: Soak up with inert absorbent material (e.g. sand, silica gel, ac binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.
TION 7: Handling and stora	ge
Handling	
Advice on safe handling : Do not breathe vapors/dust. Avoid exposure - obtain spe instructions before use. Avoid contact with skin and eyes personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dis of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization pro or asthma, allergies, chronic or recurrent respiratory disea should not be employed in any process in which this mixt being used.	
Advice on protection against fire and explosion	: Normal measures for preventive fire protection.
Storage	
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Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.	

### **SECTION 8: Exposure controls/personal protection**

### Ingredients with workplace control parameters

Components	Basis	Value	Control parameters	Note
tert-Dodecanethiol	Manufacturer	TWA	0.1 ppm,	
S				
Components	Basis	Value	Control parameters	Note
ontains no substances with or	ccupational exposure limit v	values.		
Contains no substances with or Engineering measu		values.		
Engineering measu	ures		below the exposure guide	elines/limits.
Adequate ventilation	u <b>res</b> n to control airborned o	concentrations	below the exposure guide on 2), applicable exposu	

activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

#### Personal protective equipment

Respiratory protection :	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as:. 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. Tightly fitting safety goggles.
Skin and body protection :	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Remove and wash contaminated clothing before re-use. Skin should be washed
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	after contact. Footwear protecting against chemicals.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
Protective measures	: Wear suitable protective equipment. When using do not eat, drink or smoke. Avoid contact with skin.
TION 9: Physical and chemi	cal properties
Information on basic physic	cal and chemical properties
Appearance	
Physical state	: liquid
Color	: Colorless
Odor	: Repulsive
Safety data	
Flash point	: 98-110°C (208-230°F)
	Method: closed cup
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Oxidizing properties	: No
Autoignition temperature	: 198-230°C (388-446°F)
Thermal decomposition	: 300 °F
Molecular formula	: UVCB
Molecular weight	: Varies
рН	: Not applicable
Melting point/freezing point	: -16°C (3°F)
Pour point	No data available
Boiling point/boiling range	: 233°C (451°F)
Vapor pressure	: 4.00 Pa at 24°C (75°F)
Relative density	: 0.86 at 16 °C (61 °F)
Water solubility	: 0.00393 mg/l Method: OECD Test Guideline 105
Partition coefficient: n- octanol/water	: Pow: 7.43 at 20°C (68°F)
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Sulfole® 120 Mercantar	(tert-Dodecanethiol)
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Viscosity, dynamic	: 2.6 cP at 20°C (68°F)
Viscosity, kinematic	: No data available
Relative vapor density	: 3 (Air = 1.0)
Evaporation rate	: <1
ECTION 10: Stability and reactiv	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 rea	ctions
Hazardous reactions	: Further information: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, sparks, fire, and oxidizing agents.
Materials to avoid	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Thermal decomposition	: 300 °F
Hazardous decomposition products	: Carbon oxides Sulfur oxides
Other data	: No decomposition if stored and applied as directed.
ECTION 11: Toxicological infor	mation
Acute oral toxicity	
tert-Dodecanethiol	: LD50: > 2,000 mg/kg Species: Rat Sex: female Method: OECD Test Guideline 423
Acute inhalation toxicity	
tert-Dodecanethiol	: LC50: > 1.97 mg/l Exposure time: 4 h
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	Species: Rat Sex: male and female Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.
Acute dermal toxicity	
tert-Dodecanethiol	<ul> <li>LD50: &gt; 2,000 mg/kg</li> <li>Species: Rat</li> <li>Sex: male</li> <li>Method: OECD Test Guideline 402</li> <li>Information given is based on data obtained from similar substances.</li> </ul>
Skin irritation	
tert-Dodecanethiol	: Skin irritation
Eye irritation tert-Dodecanethiol	: Eye irritation
Sensitization	
tert-Dodecanethiol	: The product is a skin sensitizer, sub-category 1B.
Repeated dose toxicity	
tert-Dodecanethiol	<ul> <li>Species: Rat, male Sex: male</li> <li>Application Route: Inhalation</li> <li>Dose: 0, 26, 98 ppm</li> <li>Exposure time: 4 wk</li> <li>Number of exposures: 6 h/d, 5 d/wk</li> <li>Lowest observable effect level: 26 ppm</li> <li>Method: OECD Test Guideline 412</li> <li>Target Organs: Kidney, Liver</li> </ul>

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	Method: OECD Test Guideline 413
	NOEL: 25 ppm
	Exposure time: 13 wk Number of exposures: 6h/d, 5d/wk
	Dose: 5, 25, 100 ppm
	Sex: male Application Route: Inhalation
	Species: Rat, male
	Target Organs: Liver
	Method: OECD Guideline 422
	Number of exposures: once daily NOEL: 200 mg/kg
	Dose: 50, 100, 200 mg/kg Exposure time: 8 - 9 wk
	Application Route: oral gavage
	Species: Rat, female Sex: female
	Target Organs: Kidney, Liver
	Method: OECD Guideline 422
	Number of exposures: once daily NOEL: 200 mg/kg
	Dose: 50, 100, 200 mg/kg Exposure time: 10 wk
	Application Route: oral gavage
	Species: Rat, male Sex: male
	Target Organs: Liver
	Lowest observable effect level: 25 ppm Method: OECD Test Guideline 412
	Number of exposures: 6 h/d, 5 d/wk
	Dose: 0, 25, 109 ppm Exposure time: 4 wk
	Application Route: Inhalation
	Species: Mouse, male and female Sex: male and female
	Target Organs: Liver
	Lowest observable effect level: 109 ppm Method: OECD Test Guideline 412
	NOEL: 25 ppm
	Exposure time: 4 wk Number of exposures: 6 h/d, 5 d/wk
	Dose: 0, 25, 106 ppm
	Sex: male and female Application Route: Inhalation
	Species: Dog, male and female
	Method: OECD Guideline 412 Target Organs: Liver, Kidney
	NOEL: 26 ppm
	Exposure time: 4 wk Number of exposures: 6 h/d, 5 d/wk
	Application Route: Inhalation Dose: 0, 26, 98 ppm
	Sex: female
	Species: Rat, female

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	Species: Rat, female Sex: female Application Route: Inhalation Dose: 5, 25, 100 ppm Exposure time: 13 wk Number of exposures: 6h/d, 5d/wk NOEL: 25 ppm Method: OECD Test Guideline 413
Genotoxicity in vitro	
tert-Dodecanethiol	: Test Type: Ames test 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 Guideline 476 Result: negative
	Test Type: Sister Chromatid Exchange Assay Metabolic activation: with and without metabolic activation Method: OECD Guideline 479 Result: negative
	Test Type: Chromosome aberration test in vitro Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative
Genotoxicity in vivo	
tert-Dodecanethiol	: Test Type: In vivo micronucleus test Species: Mouse Route of Application: Oral Dose: 1250, 2500, 5000 mg/kg/bw Method: Mutagenicity (micronucleus test) Result: negative Remarks: Information given is based on data obtained from similar substances.
Reproductive toxicity	
tert-Dodecanethiol	: Species: Rat Sex: male Application Route: oral gavage Dose: 50, 100, 200 mg/kg/d Exposure time: 10 wk Number of exposures: Daily Method: OECD Guideline 422 NOAEL Parent: 200 mg/kg Animal testing did not show any effects on fertility.
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tert-Dodecanethiol	<ul> <li>Species: Rat Application Route: Inhalation Dose: 0, 22.7, 88.6 ppm Number of exposures: 6 hrs/d Test period: GD 6-19 Method: OECD Guideline 414 NOAEL Teratogenicity: &gt;= 88.6 ppm No adverse effects expected</li> </ul>
Developmental Toxicity	Species: Rat Sex: female Application Route: oral gavage Dose: 25, 75, 200 mg/kg/d Exposure time: 16 - 18 wk Number of exposures: Daily Method: OECD Test Guideline 443 NOAEL Parent: 200 mg/kg NOAEL F1: 200 mg/kg NOAEL F2: 200 mg/kg Animal testing did not show any effects on fertility. Reduced fetal weight.
	Species: Rat Sex: male Application Route: oral gavage Dose: 25, 75, 200 mg/kg/d Exposure time: 18 wk Number of exposures: Daily Method: OECD Test Guideline 443 NOAEL Parent: 200 mg/kg NOAEL F1: 200 mg/kg NOAEL F2: 200 mg/kg Animal testing did not show any effects on fertility.
	Species: Rat Sex: female Application Route: oral gavage Dose: 50, 100, 200 mg/kg/d Exposure time: 8 - 9 wk Number of exposures: Daily Method: OECD Guideline 422 NOAEL Parent: 200 mg/kg NOAEL F1: 100 mg/kg Animal testing did not show any effects on fertility. Reduced fetal weight.

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	Species: Mouse Application Route: Inhalation Dose: 0, 22.7, 88.6 ppm Number of exposures: 6 hrs/d Test period: GD 6-19 Method: OECD Guideline 414 NOAEL Teratogenicity: >= 88.6 ppm No adverse effects expected Species: Rabbit Application Route: oral gavage Dose: 0, 50, 100, 200 mg/kg/d Number of exposures: Daily Test period: GD 6-28 Method: OECD Guideline 414 NOAEL Teratogenicity: 100 mg/kg NOAEL Maternal: 100 mg/kg Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses
Sulfole® 120 Mercaptan Aspiration toxicity	(tert-Dodecanethiol) : May be harmful if swallowed and enters airways.
CMR effects	
tert-Dodecanethiol	<ul> <li>Carcinogenicity: Not available Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Teratogenicity: Animal testing did not show any effects on</li> </ul>
	fetal development. Reproductive toxicity: No toxicity to reproduction
Sulfole® 120 Mercaptan Further information	fetal development. Reproductive toxicity: No toxicity to reproduction
	fetal development. Reproductive toxicity: No toxicity to reproduction (tert-Dodecanethiol) : Solvents may degrease the skin.
Further information	fetal development. Reproductive toxicity: No toxicity to reproduction (tert-Dodecanethiol) : Solvents may degrease the skin.
Further information	fetal development. Reproductive toxicity: No toxicity to reproduction (tert-Dodecanethiol) : Solvents may degrease the skin.
Further information	fetal development. Reproductive toxicity: No toxicity to reproduction (tert-Dodecanethiol) : Solvents may degrease the skin. rmation : LL50: > 100 mg/l Exposure time: 96 h Species: Danio rerio (Zebra Fish) static test Method: OECD Test Guideline 203
Further information	fetal development. Reproductive toxicity: No toxicity to reproduction (tert-Dodecanethiol) : Solvents may degrease the skin. rmation : LL50: > 100 mg/l Exposure time: 96 h Species: Danio rerio (Zebra Fish) static test Method: OECD Test Guideline 203 No toxicity at the limit of solubility.

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Toxicity to bacteria	
tert-Dodecanethiol	: NOEC: 8.6 mg/l Exposure time: 3 h Growth rate Respiration inhibition Method: OECD Test Guideline 209
	NOEC: > 10 mg/l Exposure time: 3 h Growth rate Respiration inhibition Method: OECD Test Guideline 209
Toxicity to daphnia and oth	ner aquatic invertebrates (Chronic toxicity)
tert-Dodecanethiol	<ul> <li>NOEC: 0.0108 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) semi-static test Method: OECD Test Guideline 211 No toxicity at the limit of solubility.</li> </ul>
Biodegradability	
tert-Dodecanethiol	<ul> <li>aerobic</li> <li>Result: Not readily biodegradable.</li> <li>0 %</li> <li>Testing period: 28 d</li> <li>Method: OECD Test Guideline 301D</li> </ul>
Bioaccumulation	
tert-Dodecanethiol	<ul> <li>Species: Danio rerio (zebra fish) Exposure time: 15 d</li> <li>Bioconcentration factor (BCF): &gt; 500 - &lt; 1,950</li> <li>Method: OECD Test Guideline 305</li> <li>Biomagnification factor &lt;1</li> <li>The product may be accumulated in organisms.</li> </ul>
Mobility	
tert-Dodecanethiol	: After release, adsorbs onto soil.
Results of PBT assessment tert-Dodecanethiol	: Non-classified PBT substance, Non-classified vPvB substat
Additional ecological information <b>Ecotoxicology Assessmen</b>	: May cause long lasting harmful effects to aquatic life.
Short-term (acute) aquatic ha tert-Dodecanethiol	azard : No toxicity at the limit of solubility.

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Long-term (chronic) aquatic hazard tert-Dodecanethiol : May cause long lasting harmful effects to aquatic life.

#### **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.

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.

#### **SECTION 14: Transport information**

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

#### IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN3334, AVIATION REGULATED LIQUID, N.O.S., (TERT - DODECANETHIOL), 9, III

#### ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

# RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

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ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS) NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.			
Other information	: tert- Dodecanethiol, S.T. 3, Cat.Y		
	according to IMO instruments		
ECTION 15: Regulatory information	ation		
National legislation			
SARA 311/312 Hazards	: Respiratory or skin sensitization Skin corrosion or irritation 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 I	oduct neither contains, nor was manufactured with a Class I or I ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR opt. A, App.A + B).		
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This product does not contain an Act Section 112 (40 CFR 61).	y hazardous air pollutants (HAP), as defined by the U.S. Clean Air
This product does not contain an Accidental Release Prevention (4	y chemicals listed under the U.S. Clean Air Act Section 112(r) for 40 CFR 68.130, Subpart F).
This product does not contain an Intermediate or Final VOC's (40	y chemicals listed under the U.S. Clean Air Act Section 111 SOCM
US State Regulations	
Pennsylvania Right To Know :	tert-Dodecanethiol - 25103-58-6
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	: This product is in full compliance according to REACH regulation 1907/2006/EC.
Switzerland CH INV United States of America (USA) TSCA	<ul> <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> </ul>
Canada DSL	: All components of this product are on the Canadian DSL
Other AIIC 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>On the inventory, or in compliance with the inventory</li> <li>All substances in this product were registered, notified to be registered, or exempted from registration by CPChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on CPChem's notifications or if the Importer of Record themselves notified the substances.</li> </ul>
Philippines PICCS Taiwan TCSI China IECSC	<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>
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### SECTION 16: Other information

NFPA Classification	: Health Hazard: 2 Fire Hazard: 1 Reactivity Hazard: 0	2 0
Further information		
Legacy SDS Number	: 34650	

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.

AICSAustralia, Inventory of Chemical SubstancesLOAELLowest Observed Adver LevelDSLCanada, Domestic Substances ListNFPANational Fire Protection Safety & HealthNDSLCanada, Non-Domestic Substances ListNIOSHNational Institute for Od Safety & HealthCNSCentral Nervous SystemNTPNational Toxicology PriCASChemical Abstract ServiceNZloCNew Zealand Inventory ChemicalsEC50Effective Concentration Scenario ToolNOAELNo Observed Effect CcEGSTEOSCA Generic Exposure Scenario ToolOSHAOccupational Safety & AdministrationEINECSEuropean Oilfield Specialty Chemical SubstancesPELPermissible Exposure I Commercial ChemicalMAKGermany Maximum Concentration ValuesPRNTPresumed Not Toxic ActGHSGlobally Harmonized SystemRCRAResource Conservation Act>=Greater Than or Equal ToSTELShort-term Exposure L SARAIC50Inhibition Concentration 50%SARASuperfund Amendmend Reauthorization Act.	ACGIH American Conference o Government Industrial H		Lethal Dose 50%
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Scenario ToolAdministrationEOSCAEuropean Oilfield Specialty Chemicals AssociationPELPermissible Exposure IEINECSEuropean Inventory of Existing Chemical SubstancesPICCSPhilippines Inventory of Commercial ChemicalMAKGermany Maximum Concentration 	EC50 Effective Concentration	50% NOEC	No Observed Effect Concentrat
Chemicals Association       Plices         EINECS       European Inventory of Existing Chemical Substances       PICCS       Philippines Inventory of Commercial Chemical Official Substances         MAK       Germany Maximum Concentration Values       PRNT       Presumed Not Toxic         GHS       Globally Harmonized System       RCRA       Resource Conservation Act         >=       Greater Than or Equal To       STEL       Short-term Exposure L Superfund Amendment Reauthorization Act.		ure OSHA	Occupational Safety & Health Administration
Chemical Substances       Commercial Chemical         MAK       Germany Maximum Concentration Values       PRNT       Presumed Not Toxic         GHS       Globally Harmonized System       RCRA       Resource Conservation Act         >=       Greater Than or Equal To       STEL       Short-term Exposure L         IC50       Inhibition Concentration 50%       SARA       Superfund Amendment Reauthorization Act.		alty PEL	Permissible Exposure Limit
Values     Values       GHS     Globally Harmonized System     RCRA     Resource Conservation Act       >=     Greater Than or Equal To     STEL     Short-term Exposure L       IC50     Inhibition Concentration 50%     SARA     Superfund Amendment Reauthorization Act.		Existing PICCS	Philippines Inventory of Commercial Chemical Substan
>=         Greater Than or Equal To         STEL         Short-term Exposure L           IC50         Inhibition Concentration 50%         SARA         Superfund Amendment Reauthorization Act.		ncentration PRNT	Presumed Not Toxic
IC50 Inhibition Concentration 50% SARA Superfund Amendment Reauthorization Act.	GHS Globally Harmonized Sy	/stem RCRA	Resource Conservation Recovered
Reauthorization Act.	>= Greater Than or Equal	To STEL	Short-term Exposure Limit
JARC International Agency for Research TLV Threshold Limit Value	IC50 Inhibition Concentration	50% SARA	Superfund Amendments and Reauthorization Act.
on Cancer		Research TLV	Threshold Limit Value
IECSC Inventory of Existing Chemical TWA Time Weighted Averag Substances in China		emical TWA	Time Weighted Average

### Sulfole® 120 Mercaptan (tert-Dodecanethiol)

Version 2.13

Revision Date 2022-06-07

	ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
-				
	KECI	Korea, Existing Chemical	UVCB	Unknown or Variable Composition,
		Inventory		Complex Reaction Products, and
				Biological Materials
	<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials
				Information System
[	LC50	Lethal Concentration 50%		

SDS Number:100000068802