

**Sulfole® 120 Plus**

Version 1.5

Revision Date 2023-08-22

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

Product Name : Sulfole® 120 Plus  
Material : 1125332, 1119973, 1119020, 1119019, 1119018, 1119017,  
1119016

**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  
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 (Gifftlinjen): +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)  
Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic  
Poisoning and Drug Information Center, Hipokrāta 2, Rīga, Latvia, LV-1038, phone number +371  
67042473. (24 hours.)  
Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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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

Responsible Department : Product Safety and Toxicology Group  
 E-mail address : SDS@CPChem.com  
 Website : www.CPChem.com

**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.

**Classification**

: Skin irritation, Category 2  
 Skin sensitization, Category 1

**Labeling**

Symbol(s) :



Signal Word :

Warning

Hazard Statements :

H315: Causes skin irritation.  
 H317: May cause an allergic skin reaction.

Precautionary Statements :

**Prevention:**  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves.  
**Response:**  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P362 Take off contaminated clothing and wash before reuse.  
**Disposal:**  
 P501 Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity:****IARC**

No ingredient of this product present at levels greater than or

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**NTP**

equal to 0.1% is identified as probable, possible or confirmed 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.

**SECTION 3: Composition/information on ingredients**

Synonyms : TDM  
Tertiary Dodecyl Mercaptan  
Tert Dodecyl Mercaptan

Molecular formula : UVCB

Component	CAS-No.	Weight %
tert-Dodecanethiol	25103-58-6	90 - 100
Thiol synthesis by-products	848940-17-0	0 - 5

**SECTION 4: First aid measures**

General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

**SECTION 5: Firefighting measures**

Flash point : 98-110°C (208-230°F)  
Method: closed cup

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 : Wear self-contained breathing apparatus for firefighting if

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- equipment for fire-fighters : 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.

**SECTION 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, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

**SECTION 7: Handling and storage****Handling**

- Advice on safe handling : 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. Dispose of rinse water in accordance with local and national regulations. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

**Storage**

- 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**

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**Chevron Phillips Chemical Company LP**

Components	Basis	Value	Control parameters	Note
tert-Dodecanethiol	Manufacturer	TWA	0.1 ppm,	

**US**

Components	Basis	Value	Control parameters	Note
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**Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

- Respiratory protection : If ventilation or other engineering controls are not adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure, a supplied-air NIOSH approved respirator may be appropriate. If exposure to harmful levels of airborne material may occur, a NIOSH approved respirator that provides protection may be appropriate, such as: A positive pressure, air-supplying respirator may be appropriate if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Remove and wash contaminated clothing before re-use. Skin should be washed 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.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Appearance**

- Physical state : liquid  
Color : Colorless

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**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
pH	: 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)
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
Conductivity	: No data available

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**SECTION 10: Stability and reactivity**

<b>Reactivity</b>	: Stable under recommended storage conditions.
<b>Chemical stability</b>	: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
<b>Possibility of hazardous reactions</b>	
<b>Hazardous reactions</b>	: Further information: No decomposition if stored and applied as directed.
<b>Conditions to avoid</b>	: Heat, sparks, fire, and oxidizing agents. No data available.
<b>Materials to avoid</b>	: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
<b>Thermal decomposition</b>	: 300 °F
<b>Hazardous decomposition products</b>	: Carbon oxides Sulfur oxides
<b>Other data</b>	: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

<b>Acute oral toxicity</b>	
tert-Dodecanethiol	: LD50: > 2,000 mg/kg Species: Rat Sex: female Method: OECD Test Guideline 423
<b>Acute inhalation toxicity</b>	
tert-Dodecanethiol	: LC50: > 1.97 mg/l Exposure time: 4 h Species: Rat Sex: male and female Test atmosphere: vapor Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.
<b>Acute dermal toxicity</b>	
tert-Dodecanethiol	: LD50: > 2,000 mg/kg Species: Rat

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Sex: male  
Method: OECD Test Guideline 402  
Information given is based on data obtained from similar substances.

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Skin irritation**

: Skin irritation  
largely based on animal evidence.

**Sulfole® 120 Plus  
Eye irritation**

: No eye irritation

**Sulfole® 120 Plus  
Sensitization**

: The product is a skin sensitizer, sub-category 1B.  
largely based on animal evidence.

**Repeated dose toxicity**

tert-Dodecanethiol

: Species: Rat, male  
Sex: male  
Application Route: Inhalation  
Dose: 0, 26, 98 ppm  
Exposure time: 4 wk  
Number of exposures: 6 h/d, 5 d/wk  
Lowest observable effect level: 26 ppm  
Method: OECD Test Guideline 412  
Target Organs: Kidney, Liver



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Species: Rat, female  
Sex: female  
Application Route: Inhalation  
Dose: 0, 26, 98 ppm  
Exposure time: 4 wk  
Number of exposures: 6 h/d, 5 d/wk  
NOEL: 26 ppm  
Method: OECD Guideline 412  
Target Organs: Liver, Kidney

Species: Dog, male and female  
Sex: male and female  
Application Route: Inhalation  
Dose: 0, 25, 106 ppm  
Exposure time: 4 wk  
Number of exposures: 6 h/d, 5 d/wk  
NOEL: 25 ppm  
Lowest observable effect level: 109 ppm  
Method: OECD Test Guideline 412  
Target Organs: Liver

Species: Mouse, male and female  
Sex: male and female  
Application Route: Inhalation  
Dose: 0, 25, 109 ppm  
Exposure time: 4 wk  
Number of exposures: 6 h/d, 5 d/wk  
Lowest observable effect level: 25 ppm  
Method: OECD Test Guideline 412  
Target Organs: Liver

Species: Rat, male  
Sex: male  
Application Route: oral gavage  
Dose: 50, 100, 200 mg/kg  
Exposure time: 10 wk  
Number of exposures: once daily  
NOEL: 200 mg/kg  
Method: OECD Guideline 422  
Target Organs: Kidney, Liver

Species: Rat, female  
Sex: female  
Application Route: oral gavage  
Dose: 50, 100, 200 mg/kg  
Exposure time: 8 - 9 wk  
Number of exposures: once daily  
NOEL: 200 mg/kg  
Method: OECD Guideline 422  
Target Organs: Liver

Species: Rat, male  
Sex: male  
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

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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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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.

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: 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.

**Developmental Toxicity**

tert-Dodecanethiol

: 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:  $\geq$  88.6 ppm  
No adverse effects expected

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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:  $\geq 88.6$  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

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 Aspiration toxicity** : May be harmful if swallowed and enters airways.

**CMR effects**

tert-Dodecanethiol : 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 fetal development.  
 Reproductive toxicity: No toxicity to reproduction

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 Further information** : Solvents may degrease the skin.

**SECTION 12: Ecological information****Toxicity to fish**

tert-Dodecanethiol : 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.

**Toxicity to daphnia and other aquatic invertebrates**

tert-Dodecanethiol : EC50:  $> 0.056$  mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 semi-static test Method: OECD Test Guideline 202  
 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 other aquatic invertebrates (Chronic toxicity)**

tert-Dodecanethiol : 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.

**Biodegradability**

tert-Dodecanethiol : aerobic  
 Result: Not readily biodegradable.  
 0 %  
 Testing period: 28 d  
 Method: OECD Test Guideline 301D

**Bioaccumulation**

tert-Dodecanethiol : Species: Danio rerio (zebra fish)  
 Exposure time: 15 d  
 Bioconcentration factor (BCF): > 500 - < 1,950  
 Method: OECD Test Guideline 305  
 Biomagnification factor <1  
 The product may be accumulated in organisms.

**Mobility**

tert-Dodecanethiol : After release, adsorbs onto soil.

**Results of PBT assessment**

tert-Dodecanethiol : Non-classified PBT substance, Non-classified vPvB substance

**Additional ecological information**

: May cause long lasting harmful effects to aquatic life.

**Ecotoxicology Assessment****Short-term (acute) aquatic hazard**

tert-Dodecanethiol : No toxicity at the limit of solubility.

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Thiol synthesis by-products : No toxicity at the limit of solubility.

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

Thiol synthesis by-products : 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.

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

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

**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.

<b>Other information</b>	:	<b>tert- Dodecanethiol, S.T. 3, Cat.Y</b>
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**Maritime transport in bulk according to IMO instruments**

**SECTION 15: Regulatory information****National legislation**

**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Skin corrosion or 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**

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Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**US State Regulations****Pennsylvania Right To Know**

: tert-Dodecanethiol - 25103-58-6  
Thiol synthesis by-products - 848940-17-0

**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 : On the inventory, or in compliance with the inventory  
United States of America (USA) TSCA : On or in compliance with the active portion of the TSCA inventory  
Canada DSL : All components of this product are on the Canadian DSL  
Australia AIIC : On the inventory, or in compliance with the inventory  
New Zealand NZIoC : On the inventory, or in compliance with the inventory  
Japan ENCS : On the inventory, or in compliance with the inventory  
Korea KECI : 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.  
Philippines PICCS : On the inventory, or in compliance with the inventory  
Taiwan TCSI : On the inventory, or in compliance with the inventory  
China IECSC : On the inventory, or in compliance with the inventory



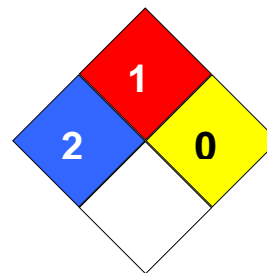
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**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 2  
Fire Hazard: 1  
Reactivity Hazard: 0

**Further information**

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.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AiIC	Australian Inventory of Industrial Chemicals	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

**Sulfole® 120 Plus**

Version 1.5

Revision Date 2023-08-22

			Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%	ATE	Acute toxicity estimate