

Sulfole® 120 Mercaptan (tert-Dodecanethiol)

Version 2.20

Revision Date 2022-06-07

according to GB/T 16483 and GB/T 17519

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

Product information

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
Local	:	Chevron Phillips Chemicals (Shanghai) Corporation Room 1810-1812, Shanghai Mart, 2299 Yan An Road (W), Shanghai, PRC 200336 Tel: (86-21) 22157200
Emergency telephone: Health: 866.442.9628 (North Am 1.832.813.4984 (Internat Transport: CHEMTREC 800.424.93 Asia: CHEMWATCH (+6	iona 00 o	I)
Mexico CHEMTREC 01-4 South America SOS-Cote Argentina: +(54)-115983 EUROPE: BIG +32.14.58 Austria: VIZ +43 1 406 43 Belgium: 070 245 245 (2- Bulgaria: +359 2 9154 23 Croatia: +3851 2348 342 Cyprus: 1401	800- ec In 9431 3454 3 43 4 ho 33 2 (24	681-9531 (24 hours) side Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600 5 (phone) or +32.14583516 (telefax) (24 hours/day, 7 days/week) urs/day, 7 days/week) hours/day, 7 days/week)
Czech Republic: Toxicolo Denmark: Danish Poison	Cer	al Information Center +420 224 919 293, +420 224 915 402 hter (Giftlinjen): +45 8212 1212 (phone) or +32.14583516 (telefax)
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Iceland: 543 2222 (24	584545 (phone) or +32.14583516 (telefax) 93777 (24 hours/day, 7 days/week) 199 (24 hours/day, 7 days/week) hours/day, 7 days/week) 4545 (phone) or +32.14583516 (telefax)
Latvia: State Fire and F Poisoning and Drug In 67042473. (24 hours.) Liechtenstein: BIG +32 Lithuania: +370 (85) 23 Luxembourg: (+352) 80 Malta: +356 2395 2000 The Netherlands: NVIC Norway: 22 59 13 00 (2 Poland: BIG +32.14.58 Portugal: CIAV phone Romania: +402131836 Slovakia: +421 2 5477 Slovenia: Phone numb	2.14.584545 (phone) or +32.14583516 (telefax) 362052 002 5500 (24 hours/day, 7 days/week)) 2: +31 (0)88 755 8000 24 hours/day, 7 days/week) 4545 (phone) or +32.14583516 (telefax) number: +351 800 250 250 06 4166 er: 112
hours/day, 7 days/wee Sweden: 112 – ask for	
Responsible Department E-mail address Website	 Product Safety and Toxicology Group SDS@CPChem.com www.CPChem.com
CTION 2: Hazards identific	cation
Classification of the sub	
Classification of the sub GHS Classification and I (GHS 2011)	stance or mixture
Classification of the sub GHS Classification and I (GHS 2011) Emergency Overview	stance or mixture
Classification of the sub GHS Classification and I (GHS 2011) Emergency Overview Warning	stance or mixture Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.2
Classification of the sub GHS Classification and I (GHS 2011) Emergency Overview Warning Physical state: liquid	 Stance or mixture Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.2 Color: Colorless Odor: Repulsive Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May be harmful if swallowed and enters airways. May cause long lasting harmful effects to
Classification of the sub GHS Classification and I (GHS 2011) Emergency Overview Warning Physical state: liquid Hazards	 Stance or mixture Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.2 Color: Colorless Odor: Repulsive Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May be harmful if swallowed and enters airways. May cause long lasting harmful effects to
Classification of the sub GHS Classification and I (GHS 2011) Emergency Overview Warning Physical state: liquid Hazards	 Stance or mixture Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.2 Color: Colorless Odor: Repulsive Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May be harmful if swallowed and enters airways. May cause long lasting harmful effects to aquatic life. Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2A Skin sensitization, Sub-category 1B Aspiration hazard, Category 2

Suitole® 120 Mercapta			vision Data 2022 00 07
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Symbol(S)			
Signal Word	: Warning	g	
Hazard Statements	H315: (H317: N H319: (May be harmful if swallowed and e Causes skin irritation. May cause an allergic skin reactior Causes serious eye irritation. May cause long lasting harmful eff	٦.
Precautionary Statements	P264: P273: P280: Respon P301+F CENTE P302+F P305 + water fo and eas P331: P333 + advice/ P337 + attentio P362+F before Dispos	Avoid breathing dust/fume/gas/m Wash skin thoroughly after handl Avoid release to the environment Wear protective gloves/ eye protective se: 2310: IF SWALLOWED: Immed R/doctor. 2352: IF ON SKIN: Wash with p P351 + P338: IF IN EYES: Rins or several minutes. Remove conta- sy to do. Continue rinsing. Do NOT induce vomiting. P313: If skin irritation or rash oc attention. P313: If eye irritation persists: G n. 2364: Take off contaminated cle reuse. al: Dispose of contents/ container to	ing. ection/ face protection. diately call a POISON blenty of water. se cautiously with ct lenses, if present ecurs: Get medical Get medical advice/ othing and wash it
ECTION 3: Composition/inform	ation on ing	redients	
Synonyms		Dodecyl Mercaptan ecyl Mercaptan	
Molecular formula	: UVCB		
Chemical name		CAS-No. / EINECS-No.	Concentration [wt%]
tert-Dodecanethiol		25103-58-6	90 - 100
ECTION 4: First aid measures			
General advice	sheet to t	of dangerous area. Show this ma he doctor in attendance. Material potentially fatal pneumonia if swall	may produce a
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If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. If symptoms persist, call a physician. Take victim immediately to hospital.
CTION 5: Firefighting measu	res
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 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.
CTION 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.

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SAFETY DATA SHEET

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ECTION 7: Handling and st	torage			
Handling				
Advice on safe handling	instructi persona drinking of rinse regulatio or asthr	ions before use. al protection see y should be proh water in accord ons. Persons su na, allergies, ch not be employed	dust. Avoid exposure - o Avoid contact with skin section 8. Smoking, ea ibited in the application a ance with local and natio usceptible to skin sensiti ronic or recurrent respira d in any process in which	and eyes. For ating and area. Dispose onal zation problems atory disease
Advice on protection against fire and explosior		measures for pr	reventive fire protection.	
Storage				
Requirements for storage areas and containers	Contain	ers which are of	losed in a dry and well-v pened must be carefully leakage. Observe label	resealed and
	Electric		working materials must	
ECTION 8: Exposure contr	Electric	al installations / ogical safety sta	working materials must	
Ingredients with workpl	Electric technolo ols/personal pr lace control par	al installations / ogical safety sta	working materials must	
Ingredients with workpl	Electric technolo ols/personal pr lace control par	al installations / ogical safety sta rotection rameters	working materials must and ards.	comply with the
Ingredients with workpl nevron Phillips Chemical Compar Components	Electric technolo ols/personal pr lace control par	al installations / ogical safety sta	working materials must	
Ingredients with workpl evron Phillips Chemical Compar Components ert-Dodecanethiol	Electric technolo ols/personal pr lace control par ny LP Basis	al installations / ogical safety sta rotection rameters	working materials must ndards.	comply with the
Ingredients with workpl nevron Phillips Chemical Compar Components ert-Dodecanethiol	Electric technolo ols/personal pr lace control par ny LP Basis	al installations / ogical safety sta rotection rameters	working materials must ndards.	comply with the
Ingredients with workpl hevron Phillips Chemical Compar Components tert-Dodecanethiol N Components Det applicable Engineering measures Adequate ventilation to co Consider the potential ha activities, and other subst personal protective equip exposure to harmful level recommended. The user	Electric: technolo rols/personal pr lace control par my LP Basis Manufacturer Basis Basis ontrol airborned zards of this ma tances in the wo oment. If engined is of this materia	al installations / ogical safety sta rotection rameters Value Value Value Value Value value value terial (see Section rk place when d ering controls or I, the personal p d understand all	Control parameters 0.1 ppm, Control parameters 0.1 ppm, Control parameters pelow the exposure guid on 2), applicable exposu esigning engineering co work practices are not a protective equipment listed instructions and limitation	Note Note Note Note Note Note
hevron Phillips Chemical Compar Components tert-Dodecanethiol N Components ot applicable Engineering measures Adequate ventilation to co Consider the potential ha activities, and other subsi personal protective equip exposure to harmful level	Electric: technolo cols/personal pr lace control par my LP Basis Manufacturer Basis ontrol airborned zards of this ma tances in the wo oment. If engined ls of this materia r should read and ection is usually	al installations / ogical safety sta rotection rameters Value Value Value Value Value value value terial (see Section rk place when d ering controls or I, the personal p d understand all	Control parameters 0.1 ppm, Control parameters 0.1 ppm, Control parameters pelow the exposure guid on 2), applicable exposu esigning engineering co work practices are not a protective equipment listed instructions and limitation	Note Note Note Note Note Note Note Note

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

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1011 2.20	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.
Physical state Color Odor	: liquid : Colorless : Repulsive
Safety data	
Flash point	: 98-110°C (208-230°F) Method: closed cup
	: No data available
Lower explosion limit	
Lower explosion limit Upper explosion limit	: No data available
Upper explosion limit	: No data available
Upper explosion limit Oxidizing properties	: No data available : No
Upper explosion limit Oxidizing properties Autoignition temperature	 No data available No 198-230°C (388-446°F)
Upper explosion limit Oxidizing properties Autoignition temperature Thermal decomposition	 No data available No 198-230°C (388-446°F) 300 °F
Upper explosion limit Oxidizing properties Autoignition temperature Thermal decomposition Molecular formula	 No data available No 198-230°C (388-446°F) 300 °F UVCB

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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
TION 10: Stability and reacti	ivity
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	actions
Hazardous reactions	: Further information: No decomposition if stored and applied a 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
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: No decomposition if stored and applied as directed.
formation
: LD50: > 2,000 mg/kg Species: Rat Sex: female Method: OECD Test Guideline 423
 LC50: > 1.97 mg/l Exposure time: 4 h Species: Rat Sex: male and female Method: OECD Test Guideline 403 Information given is based on data obtained from similar substances.
 LD50: > 2,000 mg/kg Species: Rat Sex: male Method: OECD Test Guideline 402 Information given is based on data obtained from similar substances.
: Skin irritation
: Eye irritation
: The product is a skin sensitizer, sub-category 1B.
 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: >= 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: >= 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	: 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
Sulfole® 120 Mercaptan (Further information	fetal development. Reproductive toxicity: No toxicity to reproduction tert-Dodecanethiol) : Solvents may degrease the skin.
	Reproductive toxicity: No toxicity to reproduction tert-Dodecanethiol) : Solvents may degrease the skin.
Further information	Reproductive toxicity: No toxicity to reproduction tert-Dodecanethiol) : Solvents may degrease the skin.
Further information	Reproductive toxicity: No toxicity to reproduction tert-Dodecanethiol) : Solvents may degrease the skin.
Further information	Reproductive toxicity: No toxicity to reproduction tert-Dodecanethiol) : Solvents may degrease the skin.
Further information	Reproductive toxicity: No toxicity to reproduction tert-Dodecanethiol) : Solvents may degrease the skin. mation : LL50: > 100 mg/l Exposure time: 96 h Species: Danio rerio (Zebra Fish) static test Method: OECD Test Guideline 203
Further information	Reproductive toxicity: No toxicity to reproduction tert-Dodecanethiol) : Solvents may degrease the skin. mation : 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 othe	er 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 Ecotoxicology Assessment	: May cause long lasting harmful effects to aquatic life.
Short-term (acute) aquatic haz tert-Dodecanethiol	ard : 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- D	odecanethiol, S.T. 3, Cat.Y				
Maritime transport in bulk acco	ording t	to IMO instruments				
ECTION 15: Regulatory information	n					
Notification status Europe REACH Switzerland CH INV United States of America (USA) TSCA Canada DSL Other AIIC New Zealand NZIoC Japan ENCS Korea KECI		This product is in full compliance according to REACH regulation 1907/2006/EC. On the inventory, or in compliance with the inventory On or in compliance with the active portion of the TSCA inventory All components of this product are on the Canadian DSL On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory 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 Taiwan TCSI China IECSC		On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory				
Other regulations	:	Law on Prevention and Control of Environment Pollution by Solid Waste, Provisions on the Safe Use of Chemicals at Workplace, Law on the Prevention and Control of Occupational Diseases, Fire Protection Law				
Other regulations	:	Law on the Prevention and Control of Occupational Diseases				
ECTION 16: Other information						
Further information Legacy SDS Number :	34650					
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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.

K	ey or legend to abbreviations and a	cronyms use	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%		