

**Sulfole® 120B Mercaptan**

Version 5.8

Revision Date 2026-08-03

Version	Revision Date:	SDS Number (Internal):	MSDS number: AA00974-0000000135
5.8	2026-08-03	100000014573	Date of last issue: 2021-12-07 Date of first issue: 2009-10-27

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sulfole® 120B Mercaptan

Material : 1116064, 1108796, 1105436, 1101538, 1101537

Product code : 000000000000000000 000000000000000000

Recommended use of the chemical and restrictions on use

Recommended use : Polymer Molecular Weight Modification

Restrictions on use : None known.

Manufacturer or supplier's details

Address : Chevron Phillips Chemical Company LP
Specialty Chemicals
9500 Lakeside Blvd.
The Woodlands, TX 77381

Address : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601, JEONGJAIL-RO,
BUNDANG-GU, SEONGNAMI-SI,
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Telephone no.: +612-9186-1132

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 (Giftlinjen): +45 8212 1212

Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

Finland: 0800 147 111 09 471 977 (24 hours/day)



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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: POISON CENTER MILAN – Azienda Ospedaliera Niguarda Ca` Grande Tel. +39 02 66101029; POISON CENTER ROME – Policlinico “Agostino Gemelli”, Servizio di tossicologia clinica Tel. +39 06 3054343; POISON CENTER ROME – Ospedale Pediatrico Bambino Gesù Tel. +39 06 68593726; POISON CENTER ROME – Policlinico “Umberto I” Tel. +39 06 4997 8000; POISON CENTER FOGGIA – Azienda Ospedaliera Universitaria Riuniti Tel. +39 0881 732326; POISON CENTER NAPLES – Azienda Ospedaliera “Antonio Cardarelli” Tel. +39 081 7472870; POISON CENTER FLORENCE – Azienda Ospedaliera universitaria Careggi Tel. +39 055 7947819; POISON CENTER PAVIA – IRCCS Fondazione Salvatore Maugeri Tel. +39 0382 24444; POISON CENTER BERGAMO – Azienda Ospedaliera “Papa Giovanni XXIII” Tel. 800 883 300; POISON CENTER VERONA – Azienda Ospedaliera Universitaria integrata Tel. 800 011 858;
 Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371 67042473. (24 hours.)
 Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Lithuania: +370 (85) 2362052
 Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)
 Malta: +356 2395 2000
 The Netherlands: NVIC: +31 (0)88 755 8000
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
 Portugal: CIAV phone number: +351 800 250 250
 Romania: +40213183606
 Slovakia: +421 2 5477 4166
 Slovenia: Phone number: 112
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)
 Sweden: 112 – ask for Poisons Information

Organization that prepared the SDS : Product Safety and Toxicology Group
 E-mail address : SDS@CPChem.com
 Website : www.CPChem.com
 Appointees : 회사명: 리이치 24 시코리아(주).
 주소: 서울시 서초구 헌릉로 7,
 외국기업창업지원연구센터
 (IKP) 908-909호

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전화: +82-1067838981

2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 4

Aspiration hazard : Category 2

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H227 Combustible liquid.
H305 May be harmful if swallowed and enters airways.

Precautionary Statements :

Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 Store in a well-ventilated place.
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container according to waste-related laws

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Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 98 %

The following percentage of the mixture consists of ingredient(s) with unknown acute dermal toxicity: 98 %

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 98 %

Other hazards which do not result in classification

No data available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
tert-Dodecanethiol	tert-dodecanethiol	25103-58-6	>= 95 - <= 100

None

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. |
| 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. |
| In case of skin contact | : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes. |
| If inhaled | : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician. |
| If swallowed | : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
Keep respiratory tract clear.
Do NOT induce vomiting. |


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Most important symptoms and effects, both acute and delayed	:	Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Notes to physician	:	No information available. No information available. Treat symptomatically.

5. FIRE-FIGHTING MEASURES
Suitable and unsuitable extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)

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.

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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 and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, ver-


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miculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
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.
- Conditions for safe storage : No smoking.
Keep in a 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.
- Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
tert-Dodecanethiol	25103-58-6	TWA	0.1 ppm	CPC

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

Engineering measures : Adequate ventilation to control airborne concentrations below the exposure guidelines/limits.

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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. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

- 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.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
- Hand protection
- Remarks : 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.
- 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:
Flame retardant protective clothing
Remove and wash contaminated clothing before re-use.
Skin should be washed after contact.

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Hygiene measures : Footwear protecting against chemicals
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: Colorless
Odor	: Repulsive
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Pour point	: No data available
Boiling point/boiling range	: 234 °C
Flash point	: 92 °C
	Method: Tag closed cup
Evaporation rate	: 1
Self-ignition	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapor pressure	: 4 Pa (24 °C)
Solubility(ies)	
Water solubility	: 0.00393 mg/l
	Method: OECD Test Guideline 105
Relative vapor density	: 3
	(Air = 1.0)
Relative density	: 0.8664 (16 °C)

SAFETY DATA SHEET

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Density	:	0.9 g/cm ³
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	4 mPa.s
Viscosity, kinematic	:	
Oxidizing properties	:	no
Molecular weight	:	202.44 g/mol

10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	:	Reactivity: Stable under recommended storage conditions. 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. Chemical stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Possibility of hazardous reactions: Hazardous polymerization does not occur. Possibility of hazardous reactions: Vapors may form explosive mixture with air. Possibility of hazardous reactions: No decomposition if stored and applied as directed.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	:	Carbon oxides Sulfur oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	No data available
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exposure

Health hazard information**Acute toxicity**

No data available

Components:**tert-Dodecanethiol:**

Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 1.97 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403 GLP: yes Assessment: 0 - Not toxic Remarks: Information given is based on data obtained from similar substances.
Acute dermal toxicity	:	LD50 (Rat, male): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: Not harmful Remarks: Information given is based on data obtained from similar substances.

Skin corrosion/irritation

No data available

Product:

Remarks : May cause skin irritation and/or dermatitis.

Components:**tert-Dodecanethiol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation
GLP	:	yes
Remarks	:	May cause skin irritation and/or dermatitis.

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Serious eye damage/eye irritation

No data available

Product:

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

Components:**tert-Dodecanethiol:**

Result : No eye irritation
Method : OECD Test Guideline 437
GLP : yes

Remarks : Vapors may cause irritation to the eyes, respiratory system and the skin.

Respiratory or skin sensitization**Respiratory sensitization**

No data available

Skin sensitization

The product is a skin sensitizer, sub-category 1B.

Skin sensitization

No data available

Product:

Remarks : Causes sensitization.

Components:**tert-Dodecanethiol:**

Test Type : Skin Sensitisation: Local Lymph Node Assay
Species : Mouse
Method : OECD Test Guideline 429
Result : The product is a skin sensitizer, sub-category 1B.
GLP : yes

Remarks : Causes sensitization.

Carcinogenicity

No data available

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Components:**tert-Dodecanethiol:**

No data available

Carcinogenicity - Assessment : Not available

Germ cell mutagenicity

No data available

Components:**tert-Dodecanethiol:**

Not applicable

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negativeTest Type: Mouse lymphoma assay
Metabolic activation: with and without metabolic activation
Method: OECD Guideline 476
Result: negativeTest Type: Sister Chromatid Exchange Assay
Metabolic activation: with and without metabolic activation
Method: OECD Guideline 479
Result: negativeTest Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negativeGenotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse
Application Route: 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.

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

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Reproductive toxicity

No data available

Components:**tert-Dodecanethiol:**

No data available

Reproductive toxicity - Assessment : No toxicity to reproduction
Animal testing did not show any effects on fetal development.

STOT-single exposure

No data available

Product:

Remarks : Not classified due to data which are conclusive although insufficient for classification.

STOT-repeated exposure

No data available

Product:

Remarks : Not classified due to data which are conclusive although insufficient for classification.

Repeated dose toxicity**Components:****tert-Dodecanethiol:**

Species : Rat, male
LOAEL : 26 ppm
Application Route : Inhalation
Test atmosphere : dust/mist
Exposure time : 4 wk
Number of exposures : 6 h/d, 5 d/wk
Dose : 0, 26, 98 ppm
Method : OECD Test Guideline 412
GLP : yes
Target Organs : Kidney, Liver
Symptoms : Renal tubular degeneration

Species : Rat, female
NOAEL : 26 ppm


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Application Route : Inhalation
 Test atmosphere : dust/mist
 Exposure time : 4 wk
 Number of exposures : 6 h/d, 5 d/wk
 Dose : 0, 26, 98 ppm
 Method : OECD Guideline 412
 GLP : yes
 Target Organs : Liver, Kidney
 Symptoms : Increased organ weight., Hydronephrosis

Species : Dog, male and female
 NOAEL : 25 ppm
 LOAEL : 109 ppm
 Application Route : Inhalation
 Test atmosphere : dust/mist
 Exposure time : 4 wk
 Number of exposures : 6 h/d, 5 d/wk
 Dose : 0, 25, 106 ppm
 Method : OECD Test Guideline 412
 GLP : yes
 Target Organs : Liver
 Symptoms : Hepatocellular hypertrophy

Species : Mouse, male and female
 LOAEL : 25 ppm
 Application Route : Inhalation
 Exposure time : 4 wk
 Number of exposures : 6 h/d, 5 d/wk
 Dose : 0, 25, 109 ppm
 Method : OECD Test Guideline 412
 GLP : yes
 Target Organs : Liver
 Symptoms : Hepatocellular hypertrophy

Species : Rat, male
 NOAEL : 200 mg/kg
 Application Route : oral gavage
 Exposure time : 10 wk
 Number of exposures : once daily
 Dose : 50, 100, 200 mg/kg
 Method : OECD Guideline 422
 Target Organs : Kidney, Liver
 Symptoms : Increased organ weight., Renal tubular degeneration, Hyaline droplet formation., Hepatocellular hypertrophy

Species : Rat, female
 NOAEL : 200 mg/kg

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Application Route	:	oral gavage
Exposure time	:	8 - 9 wk
Number of exposures	:	once daily
Dose	:	50, 100, 200 mg/kg
Method	:	OECD Guideline 422
Target Organs	:	Liver
Symptoms	:	Increased organ weight., Hepatocellular hypertrophy
Species	:	Rat, male
NOAEL	:	25 ppm
Application Route	:	Inhalation
Test atmosphere	:	vapor
Exposure time	:	13 wk
Number of exposures	:	6h/d, 5d/wk
Dose	:	5, 25, 100 ppm
Method	:	OECD Test Guideline 413
Symptoms	:	Body weight depression, decrease in appetite, Hyaline droplet formation., Thirst
Species	:	Rat, female
NOAEL	:	25 ppm
Application Route	:	Inhalation
Test atmosphere	:	vapor
Exposure time	:	13 wk
Number of exposures	:	6h/d, 5d/wk
Dose	:	5, 25, 100 ppm
Method	:	OECD Test Guideline 413
Symptoms	:	effects on menstruation, Thirst

Aspiration toxicity

May be harmful if swallowed and enters airways.

Product:

May be harmful if swallowed and enters airways.

Components:**tert-Dodecanethiol:**

May be harmful if swallowed and enters airways.

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

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Neurological effects

No data available

Further information**Product:**

Remarks : Solvents may degrease the skin.

Components:**tert-Dodecanethiol:**

Remarks : Solvents may degrease the skin.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****tert-Dodecanethiol:**

Toxicity to fish : LL50 (Danio rerio (Zebra Fish)): > 100 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.056 mg/l
Exposure time: 48 h
Test Type: semi-static test
Method: OECD Test Guideline 202
GLP: yes
Remarks: No toxicity at the limit of solubility.

M-Factor (Acute aquatic toxicity) : 10
10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.0108 mg/l
Exposure time: 21 d
Test Type: semi-static test
Method: OECD Test Guideline 211
Remarks: No toxicity at the limit of solubility.

M-Factor (Chronic aquatic toxicity) : 10

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Toxicity to microorganisms : 10
NOEC: 8.6 mg/l
End point: Growth rate
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

NOEC: > 10 mg/l
End point: Growth rate
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP: yes

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.
May cause long lasting harmful effects to aquatic life.

Persistence and degradability**Product:**

Biodegradability : Remarks: This material is not expected to be readily biodegradable.

Components:**tert-Dodecanethiol:**

Biodegradability : aerobic
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes

Bioaccumulative potential**Components:****tert-Dodecanethiol:**

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

Partition coefficient: n-octanol/water : log Pow: 7.43 (20 °C)
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

Mobility in soil**Components:****tert-Dodecanethiol:**

Mobility : Remarks: After release, adsorbs onto soil.

Other adverse effects**Product:**

Additional ecological information : May cause long lasting harmful effects to aquatic life.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
May cause long lasting harmful effects to aquatic life.

Components:**tert-Dodecanethiol:**

Results of PBT and vPvB assessment : Non-classified PBT substance
Non-classified vPvB substance

Additional ecological information : No data available

Endocrine disrupting properties

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : The product should not be allowed to enter drains, water

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Contaminated packaging : courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

Disposal precautions

Dispose of contents and container according to wastes control act.

14. TRANSPORT INFORMATION**International Regulations**

Remarks : tert- Dodecanethiol, S.T. 3, Cat.Y

IATA-DGR

UN/ID No. : UN 3334
Proper shipping name : Aviation regulated liquid, n.o.s.
(tert-Dodecanethiol)
Class : 9
Packing group : III
Labels : Class 9 - Miscellaneous Dangerous Goods
Remarks : tert- Dodecanethiol, S.T. 3, Cat.Y

IMDG-Code

Not regulated as a dangerous good
UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
EmS Code : Not applicable
Marine pollutant : no
Remarks : tert- Dodecanethiol, S.T. 3, Cat.Y

Maritime transport in bulk according to IMO instruments

Not applicable

Domestic regulation

Refer to section 15 for specific national regulation.

Special precautions for user

Remarks : not regulated
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION**National regulatory information****Regulation under the Occupational Safety and Health Act****Harmful Substances Prohibited from Manufacturing**

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Harmful Agents to be kept below Occupational Exposure Limits

Not applicable

Harmful Agents Required to be kept below Permission Levels

Not applicable

Hazardous substances requiring management

Not applicable

Special Management Materials

Not applicable

Controlled Substances Subject to Environment Monitoring

Not applicable

Controlled Substances Subject to Health Examination

Not applicable

Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Not applicable

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Not applicable

K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Not applicable

Regulation under the Chemicals Control Act**Restricted Chemicals**

Not applicable

Prohibited Chemicals

Not applicable

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Toxic Release Inventory

Not applicable

Accident Precaution Chemicals

Not applicable

Chemicals of Acute and Chronic Hazard to Human Health and the Environment**Substances Acutely hazardous to humans**

Not applicable

Substances Chronically hazardous to humans

Not applicable

Substances Hazardous to the environment

Not applicable

Accident Precaution Chemicals

Not applicable

Toxic Release Inventory

Not applicable

Act on Registration and Evaluation of Chemical Substances (K-REACH)**Restricted Chemicals**

Not applicable

Prohibited Chemicals

Not applicable

Substances subject to intensive control (ARECs)

Not applicable

Substances with Unconfirmed Hazards

Not applicable

Dangerous Substances Safety Management Act

Classification : Group 4, Flammable liquids, Type 3 petroleums, Water insoluble liquid

Hazard rank : Hazardous rank III

Designated Quantity : 2000 liter

Safety Warning : Keep away from fire

Waste Control Act

Industrial general wastes

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Follow article 13 of the act to dispose the product waste

Other requirements in domestic and other countries**The ingredients of this product are reported in the following inventories:**

EU REACH	: This product is in full compliance according to REACH regulation 1907/2006/EC.
CH INV	: On the inventory, or in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory
DSL	: All components of this product are on the Canadian DSL
AU AIIC	: On the inventory, or in compliance with the inventory
NZIoC	: Does not have an individual approval but may be used under an appropriate group standard
ENCS	: On the inventory, or in compliance with the inventory
ISHL	: On the inventory, or in compliance with the inventory
KECI	: All substances in this product were registered, notified to be registered, or exempted from registration by QChem through an Only Representative according to K-REACH regulations. Importation of this product is permitted if the Korean Importer of Record was included on QChem's notifications or if the Importer of Record themselves notified the substances.
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TW TCSI	: On the inventory, or in compliance with the inventory
TECI	: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

Issuing date : 2009-10-27

Revision number and date

Number of Revision : 5.8
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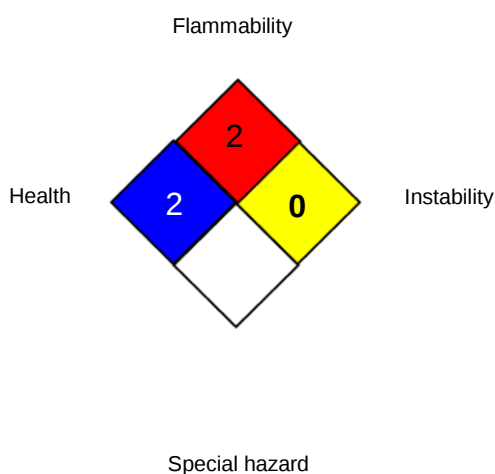
SAFETY DATA SHEET

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NFPA:**Full text of other abbreviations**

CPC : Chevron Phillips Chemical Company LP

CPC / TWA : Time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development;

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OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.

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