

Version 5.7 Revision Date 2021-12-07

MSDS number: AA00974-0000000135

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

Product Name : Sulfole® 120B Mercaptan

Material : 1116064, 1108796, 1105436, 1101538, 1101537

Recommended use of the

product

: Polymer Molecular Weight Modification

Restrictions on use : None known.

Address : Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

Address : CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.

C/O DONG WOO CORPORATION

#B-2601, JEONGJAIL-RO,

BUNDANG-GU, SEONGNAMI-SI,

GYEONGGI-DO,13557 SOUTH KOREA

Telephone no.: +612-9186-1132

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Transport:

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Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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Argentina: +(54)-1159839431

Responsible Department : Product Safety and Toxicology Group

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SECTION 2: Hazards identification

Hazard classification

Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2020-130)

Classification

: Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2

Skin sensitization, Category 1 Aspiration hazard, Category 2

Long-term (chronic) aquatic hazard, Category 4

Warning label elements including precautionary statements

Symbol(s) :





Signal Word : Warning

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

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

H413: May cause long lasting harmful effects to aquatic life.

Precautionary Statements : Prevention:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash the contact area thoroughly after handling.
P272: Contaminated work clothing should not be allowed out

of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P310: IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

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P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321: Specific treatment (see supplemental first aid instructions on this label).

P331: Do NOT induce vomiting.

P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313: If eye irritation persists: Get medical advice/attention.

P362 + P364: Take off contaminated clothing and wash it before reuse.

Storage:

P405: Store locked up.

Disposal:

P501: Dispose of contents and container according to wastes

control act.

Other hazards which do not result in classification

: None

SECTION 3: Composition/information on ingredients

Synonyms : TDM

Tertiary Dodecyl Mercaptan

Molecular formula : C12H26S

Common name	Synonyms	CAS-No.	Concentration	KECI Number
tert-Dodecanethiol	tert-dodecanethiol	25103-58-6	98 % - 100%	KE-12852

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.

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.

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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. Never give anything by mouth to

an unconscious person. If symptoms persist, call a physician.

Take victim immediately to hospital.

Other cautions for Doctors

Symptoms : No information available.

Risks : No information available.

Treatment : No information available.

SECTION 5: Firefighting measures

Flash point : 92°C (198°F)

Method: Tag closed cup

Autoignition temperature : No data available

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

Special protective

equipment for fire-fighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case

of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed

containers.

Fire and explosion

protection

Do not spray on a naked flame or any incandescent material.

Keep away from open flames, hot surfaces and sources of

ignition.

Hazardous decomposition : Carbon oxides. Sulfur oxides.

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products

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 : Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable,

closed containers for disposal.

SECTION 7: Handling and storage

Handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapors/dust. 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.

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.

Secure storage

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and wellventilated 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.

Uses advised against : None known.

Specific Use : Polymer Molecular Weight Modification

SECTION 8: Exposure controls/personal protection

Chevron Phillips Chemical Company LP

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

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Components Basis Value Control parameters Note

Chemical exposure standards, biological exposure standards, etc.

Adequate ventilation to control airborned 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 : Wear a NIOSH approved respirator that provides protection

when working with this material if exposure to harmful levels of airborne material may occur, such as:. Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Air-Purifying Respirator for Dusts and Mists. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, aerosolization, exposure levels are not known, or other circumstances where air-purifying

respirators may not provide adequate protection.

Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.

Wear face-shield and protective suit for abnormal processing

problems.

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.

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Wear as appropriate:. Protective suit. Safety shoes.

Hygiene measures : When using do not eat or drink. When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state : liquid Color : Colorless

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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 (453°F)

Flash point : 92°C (198°F)

Method: Tag closed cup

Evaporation rate : 1

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapor pressure : 4.00 Pa

at 24°C (75°F)

Solubility : 0.00393 mg/l

Method: OECD Test Guideline 105

Relative density : 0.8664

at 16 °C (61 °F)

Density : 0.9 g/cm3

Vapor density : 3

(Air = 1.0)

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Molecular weight : 202.44 g/mol

Viscosity, dynamic : 4 mPa.s

SECTION 10: Stability and reactivity

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Chemical stability : This material is considered stable under normal ambient and

anticipated storage and handling conditions of temperature

and pressure.

Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerization does not

occur.

Further information: No decomposition if stored and applied as

directed.

Hazardous reactions: Vapors may form explosive mixture with

air.

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : May react with oxygen and strong oxidizing agents, such as

chlorates, nitrates, peroxides, etc.

Thermal decomposition : No data available

Hazardous decomposition

products

: Carbon oxides Sulfur oxides

Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Information on exposure routes

Acute oral toxicity

tert-Dodecanethiol : LD50: > 2,000 mg/kg

Species: Rat Sex: female

Method: OECD Test Guideline 423

Acute inhalation toxicity

tert-Dodecanethiol : LC50: > 1.97 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female

Method: OECD Test Guideline 403

Information given is based on data obtained from similar

substances.

Acute dermal toxicity

tert-Dodecanethiol : LD50: > 2,000 mg/kg

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Species: Rat Sex: male

Method: OECD Test Guideline 402

Information given is based on data obtained from similar

substances.

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Skin corrosion or irritation : Skin irritation

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Eye corrosion or irritation : Eye irritation

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Respiratory Sensitization : No data available

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

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

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Exposure time: 13 wk

Number of exposures: 6h/d, 5d/wk

NOEL: 25 ppm

Method: OECD Test Guideline 413

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

Germ cell mutagenicity (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

Germ cell mutagenicity (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.

Developmental Toxicity

tert-Dodecanethiol : Species: Rat

Application Route: Inhalation

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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: 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

Specific Target Organ Toxicity (Single Exposure)

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

Specific Target Organ Toxicity (Repeated Exposure)

Not classified due to data which are conclusive although

insufficient for classification.

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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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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.

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.

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Further information : Solvents may degrease the skin.

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SECTION 12: Ecological information

Ecological Toxicity

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.

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.

Persistence and degradability

: aerobic tert-Dodecanethiol

Result: Not readily biodegradable.

Testing period: 28 d

Method: OECD Test Guideline 301D

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Bioaccumulative

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

Other adverse effects : May cause long-term adverse effects in the aquatic

environment.

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

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

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.

Disposal method : 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.

Disposal precaution : Empty remaining contents. Dispose of as unused product.

Do not re-use empty containers. Do not burn, or use a cutting

torch on, the empty drum.

SECTION 14: Transport information

The shipping descriptions shown here are for bulk shipments only, and may not apply to

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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.

UN Number	:	not regulated
UN Product Shipping Name	:	Not regulated as a dangerous good
Hazard Class	:	Not applicable
Packing Group	:	Not applicable
Marine Pollutant	:	Not applicable
Special Safety Measures on Mode of Transport	:	No data available

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NA1993, COMBUSTIBLE LIQUID, N.O.S., (TERTIARY DODECANETHIOL), III

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., (TERTIARY 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 DANGEROUS GOODS BY INLA		ONCERNING THE INTERNATIONAL CARRIA WATERWAYS)	AGE OF
NOT REGULATED AS A HAZA BY THIS AGENCY.	ARE	DOUS MATERIAL OR DANGEROUS GOODS	FOR TRANSPORTATIO
Maritime transport in bulk ac	cor	ding to IMO instruments	
Maritime transport in bulk ac			
CTION 15: Regulatory information			
CTION 15: Regulatory information	tior	1	
National legislation Regulation under the Occupa A Material Safety Datasheet (N	tior	1	ng to article 41 of the
CTION 15: Regulatory information National legislation Regulation under the Occupa	tior	onal Safety and Health Act	Threshold
National legislation Regulation under the Occupa A Material Safety Datasheet (National Safety Datashee	tior	onal Safety and Health Act OS) for this product is not required according	
National legislation Regulation under the Occupa A Material Safety Datasheet (National Safety Datasheet) ISHA. Regulation Harmful Substances Prohibited from Manufacturing	tior	onal Safety and Health Act OS) for this product is not required according Chemical name Not applicable	Threshold
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National legislation Regulation under the Occupa A Material Safety Datasheet (MISHA) Regulation Harmful Substances Prohibited from Manufacturing Harmful Substances Required Permission for Manufacture Act on the Registration and Regulation	ation/ISD	nonal Safety and Health Act DS) for this product is not required according Chemical name Not applicable Not applicable Iluation, etc. of Chemical Substances, C	Threshold limits Chemicals Control A

Dangerous Substances Safety Management Act
Dangerous Substances : Flammable liquids, Type 3 petroleums, Water insoluble liquid

: Not applicable

Safety Management Act

Toxic Release Inventory

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Regulations by the Waste

Management Act

: tert-Dodecanethiol: Designated Waste

Regulations by other domestic and foreign laws

Europe REACH On the inventory, or in compliance with the inventory Switzerland CH INV On the inventory, or in compliance with the inventory United States of America (USA) On or in compliance with the active portion of the

TSCA TSCA inventory

Canada DSL All components of this product are on the Canadian

DSL

Australia AICS On the inventory, or in compliance with the inventory New Zealand NZIoC On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Japan ENCS All substances in this product were registered, notified Korea KECI

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 China IECSC On the inventory, or in compliance with the inventory Taiwan TCSI On the inventory, or in compliance with the inventory

Other regulations No data available

SECTION 16: Other information

Source of data	:	Korea. GHS based classification
Date of initial writing	:	2018-09-20
Revision number	:	1
Last revision date	:	2021-11-10

NFPA Classification : Health Hazard: 2

Fire Hazard: 2 Reactivity Hazard: 0



Other information

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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.

Key or legend to abbreviations and acronyms used 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%					

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