

Version 2.1 Revision Date 2018-11-14

According to Regulation (EC) No. 1907/2006, Regulation (EC) No. 2015/830

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

### 1.1

## **Product information**

Product Name : Diethyl Sulfide

Material : 1017947, 1024545, 1024826

## **EC-No.Registration number**

Chemical name	CAS-No. EC-No. Index No.	Legal Entity Registration number
Diethyl Sulfide	352-93-2 206-526-9	Chevron Phillips Chemicals International NV 01-2119971585-25-0000

## 1.2

## Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses

Supported

Intermediate: The substance is registered as a Transported Isolated Intermediate with Strictly Controlled Conditions (SCC) defined in Article 18(4) of Regulation EC No.

(SCC) defined in Article 18(4) of Regulation EC No. 1907/2006 and must therefore be handled as such.

# 1.3

# Details of the supplier of the safety data sheet

Company : Chevron Phillips Chemical Company LP

Specialty Chemicals 10001 Six Pines Drive The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.

Airport Plaza (Stockholm Building)

Leonardo Da Vincilaan 19

1831 Diegem Belgium

SDS Requests: (800) 852-5530 Technical Information: (832) 813-4862 Responsible Party: Product Safety Group

Email:sds@cpchem.com

SDS Number:100000014109 1/15

Version 2.1 Revision Date 2018-11-14

### 1.4

# **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 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)

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

Responsible Department : Product Safety and Toxicology Group

E-mail address : SDS@CPChem.com Website : www.CPChem.com

## **SECTION 2: Hazards identification**

### 2.1

# Classification of the substance or mixture REGULATION (EC) No 1272/2008

Flammable liquids, Category 2 H225:

Highly flammable liquid and vapor.

Eye irritation, Category 2

Causes serious eye irritation.

Long-term (chronic) aquatic hazard,

H412:

H319:

Category 3

Harmful to aquatic life with long lasting effects.

# 2.2

## Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :





Signal Word : Danger

Hazard Statements : H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting

effects.

Precautionary Statements : Prevention:

P210 Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed. P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/

eye protection/ face protection.

Response:

P370 + P378 In case of fire: Use dry sand, dry chemical

or alcohol-resistant foam to extinguish.

SDS Number:100000014109 2/15

Version 2.1 Revision Date 2018-11-14

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

#### 3.1 - 3.2

### **Substance or Mixture**

Synonyms : Diethyl sulfide

1,1'-Thiobisethane

DES

3-thiapentane Diethyl thioether Ethylthioethane

Molecular formula : C4H10S

# Hazardous ingredients

Chemical name	CAS-No. EC-No. Index No.	Classification (REGULATION (EC) No 1272/2008)	Concentration [wt%]
Diethyl Sulfide	352-93-2 206-526-9	Flam. Liq. 2; H225 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	97 - 100

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

## 4.1

# **Description of first-aid measures**

General advice : Move out of dangerous area. Show this material safety data

sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled : If unconscious, place in recovery position and seek medical

advice. If symptoms persist, call a physician.

In case of skin contact : If 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. Never give anything by mouth to

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

Take victim immediately to hospital.

# **SECTION 5: Firefighting measures**

Flash point : -10 - -4 °C (14 - 25 °F) at 100,4 kPa

Autoignition temperature : 189 - 199 °C (372 - 390 °F)

SDS Number:100000014109 3/15

**Diethyl Sulfide** 

Version 2.1 Revision Date 2018-11-14

at 101,45 - 102,39 kPa

5.1

**Extinguishing media** 

Suitable extinguishing

media

: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing

media

: High volume water jet.

5.2

Special hazards arising from the substance or mixture

Specific hazards during fire

fighting

: Do not allow run-off from fire fighting to enter drains or water

courses

5.3

Advice for firefighters

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 an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use

only explosion-proof equipment. Keep away from open flames,

hot surfaces and sources of ignition.

Hazardous decomposition

products

: Carbon oxides. Sulfur oxides.

# **SECTION 6: Accidental release measures**

6.1

## Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Ensure adequate

ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low

areas.

6.2

**Environmental precautions** 

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.

6.3

Methods and materials for containment and cleaning up

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

SDS Number:100000014109 4/15

# Diethyl Sulfide

Version 2.1 Revision Date 2018-11-14

local / national regulations (see section 13).

6.4

### Reference to other sections

Reference to other sections : For personal protection see section 8. For disposal

considerations see section 13.

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

#### 7.1

# Precautions for safe handling 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. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with

local and national regulations.

Advice on protection against fire and explosion

Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use only explosion-proof equipment. Keep away from open flames,

hot surfaces and sources of ignition.

### 7.2

# Conditions for safe storage, including any incompatibilities

## **Storage**

Requirements for storage areas and containers

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

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

### 8.2

# Exposure controls Engineering measures

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

SDS Number:100000014109 5/15

Version 2.1 Revision Date 2018-11-14

Respiratory protection : Wear a supplied-air NIOSH approved respirator unless

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

may not provide adequate protection.

Hand protection : The suitability for a specific workplace should be discussed

with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate:. Flame retardant antistatic protective clothing. Workers should wear antistatic

footwear.

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

Wash hands before breaks and at the end of workday.

In case of an accident during maintenance/cleaning, this substance must be handled under Strictly Controlled Conditions (SCC) in accordance with REACH regulation Article 18(4) for transported isolated intermediates.

# **SECTION 9: Physical and chemical properties**

### 9.1

## Information on basic physical and chemical properties

## **Appearance**

Form : Liquid Physical state : Liquid Color : Clear

Odor : Pungent, garlic-like

Safety data

Flash point : -10 - -4 °C (14 - 25 °F) at 100,4 kPa

Lower explosion limit : No data available

Upper explosion limit : No data available

Oxidizing properties : No

Autoignition temperature : 189 - 199 °C (372 - 390 °F)

SDS Number:100000014109 6/15

# **Diethyl Sulfide**

Version 2.1 Revision Date 2018-11-14

at 101,45 - 102,39 kPa

Thermal decomposition : No data available

Molecular formula : C4H10S

Molecular weight : 90,2 g/mol

pH : No data available

Pour point : No data available

Melting point/range -103,9 °C (-155,0 °F)

at 103,25 hPa

Boiling point/boiling range : 92,1 °C (197,8 °F)

Vapor pressure : 10,00 kPa

at 30,3 °C (86,5 °F)

Density : 0,84 g/cm3

at 20 °C (68 °F)

Water solubility : 3,07 g/l

at 25 °C (77 °F)

Partition coefficient: n-

octanol/water

: log Pow: 1,95

Solubility in other solvents : Negligible

Viscosity, dynamic : 0,422 mPa.s

at 20 °C (68 °F)

Relative vapor density : 3,1

(Air = 1.0)

Evaporation rate : No data available

Percent volatile : > 99 %

# **SECTION 10: Stability and reactivity**

10.1

**Reactivity** : Stable under recommended storage conditions.

10.2

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

anticipated storage and handling conditions of temperature

and pressure.

10.3

SDS Number:100000014109 7/15

Version 2.1 Revision Date 2018-11-14

# Possibility of hazardous reactions

**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.

10.4

Conditions to avoid : Heat, flames and sparks.

**Thermal decomposition**: No data available

10.6

Hazardous decomposition

products

: Carbon oxides Sulfur oxides

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

# **SECTION 11: Toxicological information**

#### 11.1

# Information on toxicological effects

# **Acute oral toxicity**

Diethyl Sulfide : LD50: > 5.000 mg/kg

Species: Rat

Sex: male and female

Method: OECD Test Guideline 401

Information given is based on data obtained from similar

substances.

## Acute inhalation toxicity

Diethyl Sulfide : LC50: 102 mg/l

Exposure time: 4 h Species: Rat

Sex: male and female Test atmosphere: vapor

Method: OECD Test Guideline 403

Information given is based on data obtained from similar

substances.

## **Acute dermal toxicity**

Diethyl Sulfide : LD50: > 2.000 mg/kg

Sex: male and female

Method: OECD Test Guideline 402

Information given is based on data obtained from similar

substances.

SDS Number:100000014109 8/15

# **Diethyl Sulfide**

Version 2.1 Revision Date 2018-11-14

Skin irritation

Diethyl Sulfide : Mild skin irritation

Information given is based on data obtained from similar

substances.

Eye irritation

Diethyl Sulfide : Eye irritation

Information given is based on data obtained from similar

substances.

Sensitization

Diethyl Sulfide : Does not cause skin sensitization.

Information given is based on data obtained from similar

substances.

Repeated dose toxicity

Diethyl Sulfide : Species: Rat, male and female

Sex: male and female

Application Route: oral gavage Dose: 0, 2.5, 25, 250 mg/kg/bw/d

Exposure time: 14 wk

Number of exposures: 7 d/wk Method: OCED Guideline 408 No adverse effects expected

Information given is based on data obtained from similar

substances.

Genotoxicity in vitro

Diethyl Sulfide : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Chromosome aberration test in vitro

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 473

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Test Type: Mouse lymphoma assay

Metabolic activation: with and without metabolic activation

Method: OECD Guideline 476

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

SDS Number:100000014109

Version 2.1 Revision Date 2018-11-14

# Genotoxicity in vivo

Diethyl Sulfide : Test Type: In vivo micronucleus test

Species: Mouse

Cell type: Bone marrow Route of Application: Oral

Method: OECD Test Guideline 474

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

## **Developmental Toxicity**

Diethyl Sulfide : Species: Rat

Application Route: oral gavage Dose: 100, 500, 1000 mg/kg/d Exposure time: GD 6 -19 Number of exposures: Daily

Test period: 20 d

Method: OECD Guideline 414 NOAEL Teratogenicity: 1.000 mg/kg NOAEL Maternal: 1.000 mg/kg No adverse effects expected

Information given is based on data obtained from similar

substances.

**Diethyl Sulfide** 

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

**CMR** effects

Diethyl Sulfide : Carcinogenicity: Not available

Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects., In vivo tests did not show

mutagenic effects

Teratogenicity: Animal testing did not show any effects on

fetal development.

Reproductive toxicity: Not available

**Diethyl Sulfide** 

**Further information** : Solvents may degrease the skin.

# **SECTION 12: Ecological information**

## 12.1

# **Toxicity**

# Toxicity to fish

Diethyl Sulfide : LC50: > 49,8 mg/l

Exposure time: 96 h

Species: Danio rerio (Zebra Fish)

semi-static test Method: OECD Test Guideline 203 Information given is based on data obtained from similar

substances.

SDS Number:100000014109 10/15

Version 2.1 Revision Date 2018-11-14

# Toxicity to daphnia and other aquatic invertebrates

Diethyl Sulfide : EC50: 16 mg/l

Exposure time: 48 h

Species: Daphnia magna (Water flea)

static test Information given is based on data obtained from

similar substances.

Toxicity to algae

Diethyl Sulfide : EC50: > 59,3 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Information given is based on data obtained from similar

substances.

M-Factor

diethyl sulphide : M-Factor (Acute Aquat. Tox.) 1

M-Factor (Chron. Aquat. Tox.)

Toxicity to bacteria

Diethyl Sulfide : EC50: > 1.000 mg/l

Exposure time: 3 h
Respiration inhibition

Method: OECD Test Guideline 209

12.2

## Persistence and degradability

Biodegradability

Diethyl Sulfide : aerobic

Result: Not readily biodegradable.

41 %

Testing period: 28 d

Method: OECD Test Guideline 301D

Information given is based on data obtained from similar

substances.

12.3

# **Bioaccumulative potential**

Bioaccumulation

Diethyl Sulfide : This material is not expected to bioaccumulate.

12.4

Mobility in soil

Mobility

Diethyl Sulfide : No data available

SDS Number:100000014109 11/15

# **Diethyl Sulfide**

Version 2.1 Revision Date 2018-11-14

#### 12.5

### Results of PBT and vPvB assessment

Results of PBT assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6

Other adverse effects

Additional ecological : Harmful to aquatic life with long lasting effects.

information

**Ecotoxicology Assessment** 

Short-term (acute) aquatic hazard

Diethyl Sulfide : Harmful to aquatic life.

Long-term (chronic) aquatic hazard

Diethyl Sulfide : Harmful to aquatic life with long lasting effects.

## **SECTION 13: Disposal considerations**

#### 13.1

#### Waste treatment methods

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. Do not burn, or use a cutting

torch on, the empty drum.

## **SECTION 14: Transport information**

## 14.1 - 14.7

## **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)**

SDS Number:100000014109 12/15

Version 2.1 Revision Date 2018-11-14

UN2375, DIETHYL SULFIDE, 3, II

## **IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**

UN2375, DIETHYL SULPHIDE, 3, II, (-10 - -4 °C)

## IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN2375, DIETHYL SULPHIDE, 3, II

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

UN2375, DIETHYL SULPHIDE, 3, II, (D/E)

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

UN2375, DIETHYL SULPHIDE, 3, II

# ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)

UN2375, DIETHYL SULPHIDE, 3, II

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

## **SECTION 15: Regulatory information**

# 15.1

# Safety, health and environmental regulations/legislation specific for the substance or mixture National legislation

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

## 15.2

**Major Accident Hazard** 

Legislation

: 96/82/EC Update: 2003

Highly flammable

7b

Quantity 1: 5.000 t Quantity 2: 50.000 t

: ZEU\_SEVES3 Update: FLAMMABLE LIQUIDS

P5c

Quantity 1: 5.000 t Quantity 2: 50.000 t

#### **Notification status**

Europe REACH : On the inventory, or in compliance with the inventory

Notification number: 01-2119971585-25-000

SDS Number:100000014109 13/15

Version 2.1 Revision Date 2018-11-14

United States of America (USA) : On the inventory, or in compliance with the inventory

TSCA

Canada DSL : On the inventory, or in compliance with the inventory Australia AICS : On the inventory, or in compliance with the inventory New Zealand NZIoC : On the inventory, or in compliance with the inventory

Japan ENCS : Not in compliance with the inventory

Korea KECI : On the inventory, or in compliance with the inventory Philippines PICCS : On the inventory, or in compliance with the inventory China IECSC : On the inventory, or in compliance with the inventory

### **SECTION 16: Other information**

NFPA Classification : Health Hazard: 2

Fire Hazard: 3 Reactivity Hazard: 0



**Further information** 

Legacy SDS Number : 46750

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	PRNT	Presumed Not Toxic		

SDS Number:100000014109

# **Diethyl Sulfide**

Version 2.1 Revision Date 2018-11-14

	Values		
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%		

# Full text of H-Statements referred to under sections 2 and 3.

H225 Highly flammable liquid and vapor. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

SDS Number:100000014109 15/15