



## Styrene

Version 2.2

Revision Date 2022-04-04

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

#### Product information

Product Name : Styrene  
 Material : 1037612, 1037607, 1037608, 1037609

**Company** : Chevron Phillips Chemical Company LP  
 10001 Six Pines Drive  
 The Woodlands, TX 77380

#### Emergency telephone:

##### Health:

866.442.9628 (North America)  
 1.832.813.4984 (International)

##### Transport:

CHEMTREC 800.424.9300 or 703.527.3887(int'l)  
 Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090  
 Mexico CHEMTREC 01-800-681-9531 (24 hours)  
 South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600  
 Argentina: +(54)-1159839431  
 EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Austria: VIZ +43 1 406 43 43 (24 hours/day, 7 days/week)  
 Belgium: 070 245 245 (24 hours/day, 7 days/week)  
 Bulgaria: +359 2 9154 233  
 Croatia: +3851 2348 342 (24 hours/day, 7 days/week)  
 Cyprus: 1401  
 Czech Republic: Toxicological Information Center +420 224 919 293, +420 224 915 402  
 Denmark: Danish Poison Center (Gifftlinjen): +45 8212 1212  
 Estonia: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Finland: 0800 147 111 09 471 977 (24 hours/day)  
 France: ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (24 hours/day, 7 days/week)  
 Germany: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Greece: (0030) 2107793777 (24 hours/day, 7 days/week)  
 Hungary: +36-80-201-199 (24 hours/day, 7 days/week)  
 Iceland: 543 2222 (24 hours/day, 7 days/week)  
 Ireland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Italy: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Latvia: State Fire and Rescue Service, phone number: 112; Toxicology and Sepsis Clinic  
 Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1038, phone number +371  
 67042473. (24 hours.)  
 Liechtenstein: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Lithuania: +370 (85) 2362052

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Luxembourg: (+352) 8002 5500 (24 hours/day, 7 days/week)  
 Malta: +356 2395 2000  
 The Netherlands: NVIC: +31 (0)88 755 8000  
 Norway: 22 59 13 00 (24 hours/day, 7 days/week)  
 Poland: BIG +32.14.584545 (phone) or +32.14583516 (telefax)  
 Portugal: CIAV phone number: +351 800 250 250  
 Romania: +40213183606  
 Slovakia: +421 2 5477 4166  
 Slovenia: Phone number: 112  
 Spain: National Emergency Telephone Number of Spanish Poison Centre: +34 91 562 04 20 (24 hours/day, 7 days/week)  
 Sweden: 112 – ask for Poisons Information

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

**SECTION 2: Hazards identification****Classification of the substance or mixture**

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

**Classification**

: Flammable liquids, Category 3  
 Skin irritation, Category 2  
 Eye irritation, Category 2A  
 Specific target organ toxicity - repeated exposure, Category 1,  
 Inhalation, Auditory organs  
 Aspiration hazard, Category 1

**Labeling**

Symbol(s) : 

Signal Word : Danger

Hazard Statements : H226: Flammable liquid and vapor.  
 H304: May be fatal if swallowed and enters airways.  
 H315: Causes skin irritation.  
 H319: Causes serious eye irritation.  
 H372: Causes damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.

Precautionary Statements : **Prevention:**  
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.

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P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

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

P314 Get medical advice/ attention if you feel unwell.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

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

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Carcinogenicity:****IARC**

Group 2B: Possibly carcinogenic to humans

Styrene 100-42-5

**NTP**

Reasonably anticipated to be a human carcinogen

Styrene 100-42-5

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

Synonyms : Inhibited Styrene  
 Phenylethylene  
 Benzene, Ethenyl  
 Styrol  
 Cinnamene  
 Vinylbenzene  
 Styrolene  
 Styrene Monomer

Molecular formula : C<sub>8</sub>H<sub>8</sub>

| Component | CAS-No. | Weight % |
|-----------|---------|----------|
|-----------|---------|----------|

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100-42-5

99.9 - 100

**SECTION 4: First aid measures**

- General advice : Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.
- If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
- In case of eye contact : 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 : 31°C (88°F)  
Method: closed cup
- Autoignition temperature : 490°C (914°F)
- Suitable extinguishing media : Alcohol-resistant foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.
- 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. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

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**SECTION 6: Accidental release measures**

- 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.
- 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).

**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. 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 a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

**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****Ingredients with workplace control parameters****US**

| Components | Basis      | Value | Control parameters             | Note     |
|------------|------------|-------|--------------------------------|----------|
| Styrene    | OSHA Z-2   | TWA   | 100 ppm,                       |          |
|            | OSHA Z-2   | CEIL  | 200 ppm,                       |          |
|            | OSHA Z-2   | Peak  | 600 ppm,                       |          |
|            | OSHA Z-1-A | TWA   | 50 ppm, 215 mg/m <sup>3</sup>  |          |
|            | OSHA Z-1-A | STEL  | 100 ppm, 425 mg/m <sup>3</sup> |          |
|            | ACGIH      | TWA   | 10 ppm,                        | OTO, A3, |
|            | ACGIH      | STEL  | 40 ppm,                        | OTO, A3, |
|            |            |       |                                |          |

A3 Confirmed animal carcinogen with unknown relevance to humans

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OTO Ototoxicant

**Immediately Dangerous to Life or Health Concentrations (IDLH)**

| Substance name | CAS-No.  | Control parameters  | Update     |
|----------------|----------|---|------------|
| Styrene        | 100-42-5 | Immediately Dangerous to Life or Health<br>Concentration Value<br>700 parts per million | 1995-03-01 |

**Engineering measures**

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

**Personal protective equipment**

- Respiratory protection : 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, aerosolization, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Eye protection : Eye wash bottle with pure water. Tightly fitting safety goggles.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: 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.

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

Physical state : liquid

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Color : Colorless  
Odor : Sweet

**Safety data**

Flash point : 31°C (88°F)  
Method: closed cup

Lower explosion limit : 0.9 %(V)

Upper explosion limit : 6.8 %(V)

Oxidizing properties : no

Autoignition temperature : 490°C (914°F)

Molecular formula : C<sub>8</sub>H<sub>8</sub>

Molecular weight : 104.16 g/mol

pH : Not applicable

Freezing point : -30.63°C (-23.13°F)

Pour point : No data available

Boiling point/boiling range : 145.15°C (293.27°F)

Vapor pressure : 4.50 MMHG  
at 20°C (68°F)

Relative density : 0.91  
at 20 °C (68 °F)

Water solubility : 0.029 wt.% styrene in water @ 20 °C (68°F)

Partition coefficient: n-  
octanol/water : log Pow: 2.96  
at 25°C (77°F)

Viscosity, dynamic : 0.763 cP

Relative vapor density : 3.6  
(Air = 1.0)

Evaporation rate : No data available

Conductivity : < 50 pSm

**SECTION 10: Stability and reactivity**

**Reactivity** : Stable at normal ambient temperature and pressure.

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

**SECTION 11: Toxicological information****Acute oral toxicity**

- Styrene : LD50: > 5,000 mg/kg  
Species: Rat  
Sex: male and female

**Styrene**

- Acute inhalation toxicity** : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

**Styrene**

- Acute dermal toxicity** : Acute toxicity estimate: 2,500 mg/kg  
Method: Calculation method

**Styrene**

- Skin irritation** : May cause skin irritation in susceptible persons.

**Styrene**

- Eye irritation** : May cause irreversible eye damage.

**Sensitization**

- Styrene : Classification: Does not cause skin sensitization. largely based on human evidence.

**Repeated dose toxicity**

- Styrene : Species: Mouse, Male and female  
Sex: Male and female  
Application Route: Oral  
Dose: 0. 150, 300 mg/kg  
Exposure time: 78 wk  
Number of exposures: 5 d/wk



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NOEL: 150 mg/kg  
 Lowest observable effect level: 300 mg/kg

Species: Rat, male  
 Sex: male  
 Application Route: Inhalation  
 Dose: 0, 500, 650, 850, 1000 ppm  
 Exposure time: 4 wk  
 Number of exposures: 6 h/d, 5 d/wk  
 NOEL: 500 ppm  
 Target Organs: Ototoxicity

**Genotoxicity in vitro**

Styrene : Test Type: Ames test  
 Result: negative

Test Type: Cytogenetic assay  
 Result: positive

Test Type: Reverse mutation assay  
 Result: negative

Test Type: Mouse lymphoma assay  
 Result: negative

Test Type: Sister Chromatid Exchange Assay  
 Result: positive

Test Type: Mammalian cell gene mutation assay  
 Result: negative

**Genotoxicity in vivo**

Styrene : Remarks: No significant adverse effects were reported

**Aspiration toxicity**

Styrene : May be fatal if swallowed and enters airways.

**CMR effects**

Styrene : Carcinogenicity: This substance has been reported to cause tumors in certain animal species.  
 Mutagenicity: In vitro tests showed mutagenic effects which were not observed with in vivo test.  
 Teratogenicity: Some evidence of adverse effects on development, based on animal experiments.  
 Reproductive toxicity: No toxicity to reproduction

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

**SECTION 12: Ecological information**

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**Toxicity to fish**

Styrene : LC50: 4.02 mg/l  
 Exposure time: 96 h  
 Species: Pimephales promelas (fathead minnow)  
 flow-through test Test substance: yes  
 Toxic to fish.

**Toxicity to daphnia and other aquatic invertebrates**

Styrene : EC50: 4.7 mg/l  
 Exposure time: 48 h  
 Species: Daphnia magna (Water flea)  
 flow-through test

**Toxicity to algae**

Styrene : EC50: 4.9 mg/l  
 Exposure time: 72 h  
 Species: Selenastrum capricornutum (algae)

**Toxicity to bacteria**

Styrene : EC10: 0.28 mg/l  
 Exposure time: 96 h  
 Growth rate  
 Species: Skeletonema costatum (Marine Algae)  
 Test substance: yes

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)**

Styrene : NOEC: 1.01 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 semi-static test  
 Test substance: yes  
 Method: OECD Test Guideline 211

**Biodegradability**

Styrene : According to the results of tests of biodegradability this product is considered as being readily biodegradable.

**Bioaccumulation**

Styrene : Does not significantly accumulate in organisms.

**Results of PBT assessment**

Styrene : This substance is not considered to be very persistent and very bioaccumulating (vPvB)., This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

Additional ecological : An environmental hazard cannot be excluded in the event of

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information unprofessional handling or disposal., Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

**Ecotoxicology Assessment**

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

**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. 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 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)**

UN2055, STYRENE MONOMER, STABILIZED, 3, III, RQ (STYRENE)

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

UN2055, STYRENE MONOMER, STABILIZED, 3, III, (31 °C c.c.)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN2055, STYRENE MONOMER, STABILIZED, 3, III

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

UN2055, STYRENE MONOMER, STABILIZED, 3, III, (D/E)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF**

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**DANGEROUS GOODS (EUROPE)**

39,UN2055, STYRENE MONOMER, STABILIZED., 3, III

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

UN2055, STYRENE MONOMER, STABILIZED, 3, III, ENVIRONMENTALLY HAZARDOUS, (STYRENE)

For Tank Vessels and/or Barges:

UN2055, STYRENE MONOMER, STABILIZED, 3, (UNST., N3), III, ENVIRONMENTALLY HAZARDOUS, (STYRENE)

|                          |          |                                       |
|--------------------------|----------|---------------------------------------|
| <b>Other information</b> | <b>:</b> | <b>Styrene Monomer, S.T.3, Cat. Y</b> |
|--------------------------|----------|---------------------------------------|

**Maritime transport in bulk according to IMO instruments****SECTION 15: Regulatory information****National legislation**

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
 Skin corrosion or irritation  
 Serious eye damage or eye irritation  
 Specific target organ toxicity (single or repeated exposure)  
 Aspiration hazard

CERCLA Reportable Quantity : 1000 lbs  
 Styrene

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:

: Styrene - 100-42-5

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**Clean Air Act**

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

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):  
: Styrene - 100-42-5

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

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):  
: Styrene - 100-42-5

**US State Regulations**

Pennsylvania Right To Know  
: Styrene - 100-42-5

California Prop. 65 Components : WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov/food](http://www.P65Warnings.ca.gov/food).

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**Notification status**

Europe REACH : On the inventory, or in compliance with the inventory  
 United States of America (USA) TSCA : On or in compliance with the active portion of the TSCA inventory  
 Canada DSL : All components of this product are on the Canadian DSL  
 Australia AICS : On the inventory, or in compliance with the inventory  
 New Zealand NZIoC : On the inventory, or in compliance with the inventory  
 Japan ENCS : On the inventory, or in compliance with the inventory  
 Korea KECI : A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance or the exported

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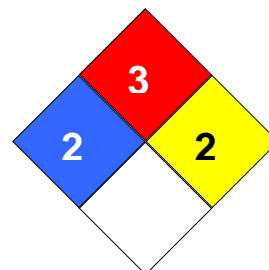
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amount does not exceed the minimum threshold quantity of the non-registered substance(s).

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

**SECTION 16: Other information**

**NFPA Classification** : Health Hazard: 2  
 Fire Hazard: 3  
 Reactivity Hazard: 2

**Further information**

Legacy SDS Number : CPC00089

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                      |

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|       |  |       |  |
|-------|--|-------|--|
| >=    | 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%                                 |       |  |