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
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

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
- Acute toxicity, Category 4, Inhalation
- Skin irritation, Category 2
- Eye irritation, Category 2A
- Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system
- Specific target organ systemic toxicity - repeated exposure, Category 1, Inhalation, Auditory organs
- Aspiration hazard, Category 1

SDS Number: 100000068536
Labeling

Symbol(s) : 

Signal Word : Danger

H304: May be fatal if swallowed and enters airways. 
H315: Causes skin irritation. 
H319: Causes serious eye irritation. 
H332: Harmful if inhaled. 
H335: May cause respiratory irritation. 
H372: Causes damage to 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/vapor/spray. 
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/protective clothing/eye protection/face protection.

Response: 
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. 
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower. 
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 
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. 
P321 Specific treatment (see supplemental first aid instructions on this label). 
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 for extinction.

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

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
ACGIH No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 3: Composition/information on ingredients

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

Molecular formula: C8H8

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>100</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

General advice: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

If inhaled: Move to fresh air. 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. Keep eye wide open while rinsing. Protect unharmed eye. If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
**SECTION 5: Firefighting measures**

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

**Autoignition temperature**: 490 °C (914 °F)

**Suitable extinguishing media**: Dry chemical. Carbon dioxide (CO2). Alcohol-resistant foam.

**Unsuitable extinguishing media**: High volume water jet.

**Specific hazards during firefighting**: 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**: Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**Fire and explosion protection**: Normal measures for preventive fire 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). Keep away from open flames, hot surfaces and sources of ignition.

**Hazardous decomposition products**: No data available.

---

**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).
Advice on safe handling: Inspect tank vents periodically. Styrene vapors may polymerize in vents or flame arrestors of storage tanks. Check temperature, inhibitor and polymer content at least once a week during warm weather. Increase monitoring frequency if stored at greater than 70 F for longer than 30 days. Minimize storage time.

Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Review all operations, which have the potential to generating and accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106 “Flammable and Combustible Liquids”; National Fire Protection Association (NFPA 77), "Recommended Practice on Static Electricity"; and/or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising Out of Static, Lightning, and stray Currents". For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion: Normal measures for preventive fire 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). 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.

Further information on storage conditions: Take precautionary measures against static discharges.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>US</th>
<th>Ingredients</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
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<tr>
<td>US</td>
<td>Styrene</td>
<td>OSHA Z-2</td>
<td>TWA</td>
<td>100 ppm,</td>
</tr>
<tr>
<td>US</td>
<td>Styrene</td>
<td>OSHA Z-2</td>
<td>CEIL</td>
<td>200 ppm,</td>
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<td>US</td>
<td>Styrene</td>
<td>OSHA Z-2</td>
<td>Peak</td>
<td>600 ppm,</td>
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<tr>
<td>US</td>
<td>Styrene</td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>50 ppm, 215 mg/m³</td>
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<tr>
<td>US</td>
<td>Styrene</td>
<td>OSHA Z-1-A</td>
<td>STEL</td>
<td>100 ppm, 425 mg/m³</td>
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<tr>
<td>US</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm,</td>
<td>CNS impair, URT irr, peripheral neuropathy, BEI, A4,</td>
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<tr>
<td>US</td>
<td>ACGIH</td>
<td>STEL</td>
<td>40 ppm,</td>
<td>CNS impair, URT irr, peripheral neuropathy, BEI, A4,</td>
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</tbody>
</table>

A4 Not classifiable as a human carcinogen
BEI Substances for which there is a Biological Exposure Index or Indices (see BEI® section)

SDS Number: 100000068536 5/14
Styrene

Version 1.7

Revision Date 2018-03-05

CNS impair  Central Nervous System impairment
peripheral  Peripheral neuropathy
neuropathy  
URT irr  Upper Respiratory Tract irritation

Immediately Dangerous to Life or Health Concentrations (IDLH)

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

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

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

SDS Number:100000068536  6/14
Styrene

Physical state: Liquid
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: C8H8
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
Percent volatile: > 99 %

Other information
Conductivity: < 50 pSm

SECTION 10: Stability and reactivity
Reactivity: No decomposition if stored and applied as directed.

Chemical stability: The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution.

No decomposition if stored and applied as directed.

Possibility of hazardous reactions

Conditions to avoid: heat, light, catalysts, halogens or any other chemicals. Heat, flames and sparks.

Materials to avoid: Corrosive to copper and copper bearing alloys.

Hazardous decomposition products: 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

Acute inhalation toxicity
Styrene: LD50: 11.8 mg/l
Exposure time: 4 h
Species: Rat
Test atmosphere: vapor

Acute dermal toxicity
Styrene: LD50: > 2,000 mg/kg
Species: Rat
Sex: male and female

Skin irritation: May cause skin irritation in susceptible persons.

Eye irritation: Irritating to eyes.

Sensitization: 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
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

Aspiration toxicity: May be fatal if swallowed and enters airways.

CMR effects
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: Did not show teratogenic effects in animal experiments.
Reproductive toxicity: No toxicity to reproduction

Further information: Solvents may degrease the skin.

SECTION 12: Ecological information

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

Toxicity to daphnia and other aquatic invertebrates
EC50: 4.7 mg/l
Species: Daphnia magna (Water flea)
Exposure time: 48 h
Flow-through test

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

Elimination information (persistence and degradability)

**Bioaccumulation**

Styrene  
Does not significantly accumulate in organisms.

**Biodegradability**

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

**Ecotoxicology Assessment**

**Acute aquatic toxicity**

Styrene  
Toxic to aquatic life.

**Chronic aquatic toxicity**

Styrene  
Harmful to aquatic life with long lasting effects.

**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 information**

Styrene  
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life, 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)

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 DANGEROUS GOODS (EUROPE))

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
SECTION 15: Regulatory information

National legislation

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

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

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 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

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

: Styrene - 100-42-5

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 12 (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 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

: Styrene - 100-42-5

**US State Regulations**

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

New Jersey Right To Know  : Styrene - 100-42-5

California Prop. 65

**Ingredients**

: WARNING! This product contains a chemical known in the State of California to cause cancer.

Styrene 100-42-5

**Notification status**

<table>
<thead>
<tr>
<th>Country</th>
<th>Status</th>
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<tbody>
<tr>
<td>Europe REACH</td>
<td>On the inventory, or in compliance with the inventory</td>
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<tr>
<td>United States of America (USA)</td>
<td>On the inventory, or in compliance with the inventory</td>
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<tr>
<td>TSCA</td>
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<td>Canada DSL</td>
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<td>Australia AICS</td>
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<td>New Zealand NZIoC</td>
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<td>Japan ENCS</td>
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<td>Philippines PICCS</td>
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<tr>
<td>China IECSC</td>
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</table>

**SECTION 16: Other information**

**NFPA Classification**

: Health Hazard: 2  
: Fire Hazard: 3  
: Reactivity Hazard: 2

**Further information**

<table>
<thead>
<tr>
<th>Legacy SDS Number</th>
<th>CPC00089</th>
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</table>

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

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration 50%</td>
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<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<td>GHS</td>
<td>Globally Harmonized System</td>
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<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
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<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<td>Korea, Existing Chemical Inventory</td>
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<tr>
<td>&lt;=</td>
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<td>LC50</td>
<td>Lethal Concentration 50%</td>
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<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
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<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
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<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
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<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>NOAEL</td>
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<td>Occupational Safety &amp; Health Administration</td>
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<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
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