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

Product information

Product Name: Scentinel® P Gas Odorant
Material: 1061965, 1024684, 1024685, 1027473, 1027472

Use: Odorant

Company: Chevron Phillips Chemical Company LP
Specialty Chemicals
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

ODOR-FADE WARNING

A GAS LEAK CAN CAUSE A FIRE OR EXPLOSION RESULTING IN SERIOUS INJURY OR DEATH.

Be aware that the stenching chemical added to gas to make it detectable may not warn of a gas leak or the presence of propane or natural gas to all persons in every instance.

Instances where the odorant in an odorized gas may be undetectable include:

• Odor intensity may fade or be eliminated for a variety of chemical and physical causes, including the oxidation of rusting pipes, adsorption into or sticking onto the interior of pipes or appliances, or absorption into liquids.
• Contact with soil in underground leaks may de-odorize or remove odorant from the gas.
• Some people have a diminished ability, or inability to smell the stench. Factors that negatively affect a person’s sense of smell include age, gender, medical conditions, and alcohol/tobacco usage.
• The stench of odorized gas may not awaken sleeping persons.
• Other odors may mask or hide the stench.
• Exposure to the odor for even a short period of time, may cause nasal fatigue, where a person can no longer smell the stench.

Gas detectors listed by the Underwriters Laboratories (UL) can be used as an extra measure of safety for detecting gas leaks, especially under conditions where the odorant alone may not provide an adequate warning. Gas detectors emit a loud, shrill sound when gas is present and do not depend on sense of smell. Because the odor intensity can fade or people may have problems with their sense of smell, we recommend installing, per manufacturer’s instructions, one or more combustible gas detectors, in suitable locations to ensure adequate coverage to detect gas leaks.

Educate yourself, your employees, and your customers with the content of this warning and other important facts associated with the so-called “odor-fade phenomenon.”

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 2 |
|               | Skin sensitization, Category 1 |

Labeling

| Symbol(s) | [Flammable][Warning] |
| Signal Word | Danger |

Hazard Statements

- H225: Highly flammable liquid and vapor.
- H317: May cause an allergic skin reaction.

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.
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/eye protection/face protection.

**Response:**
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
## Storage:
P403 + P235  Store in a well-ventilated place. Keep cool.

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

### Carcinogenicity:

#### IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

## SECTION 3: Composition/information on ingredients

### Synonyms:
- Mercaptan Mixture
- Gas Odorant

### Molecular formula:
Mixture

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Mercaptan</td>
<td>75-33-2</td>
<td>80</td>
</tr>
<tr>
<td>t-Butyl Mercaptan</td>
<td>75-66-1</td>
<td>10</td>
</tr>
<tr>
<td>n-Propyl Mercaptan</td>
<td>107-03-9</td>
<td>10</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. 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:
Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

### 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:
< -17.8 °C (< -0.0 °F)
Method: open cup estimated
# SAFETY DATA SHEET

**Scentinel® P Gas Odorant**

**Version 2.0**

**Revision Date** 2018-05-16

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Suitable extinguishing media</td>
<td>Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td>High volume water jet.</td>
</tr>
<tr>
<td>Specific hazards during fire fighting</td>
<td>Do not allow run-off from fire fighting to enter drains or water courses.</td>
</tr>
<tr>
<td>Special protective equipment for fire-fighters</td>
<td>Wear self-contained breathing apparatus for firefighting if necessary.</td>
</tr>
<tr>
<td>Further information</td>
<td>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.</td>
</tr>
<tr>
<td>Fire and explosion protection</td>
<td>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.</td>
</tr>
<tr>
<td>Hazardous decomposition products</td>
<td>Carbon oxides. Sulfur oxides.</td>
</tr>
</tbody>
</table>

## 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

Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against...
**SAFETY DATA SHEET**

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**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. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

**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.

**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**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Butyl Mercaptan</td>
<td>Manufacturer</td>
<td>TWA</td>
<td>0.5 ppm.</td>
<td></td>
</tr>
<tr>
<td>n-Propyl Mercaptan</td>
<td>NIOSH REL</td>
<td>C</td>
<td>0.5 ppm, 1.6 mg/m3</td>
<td></td>
</tr>
</tbody>
</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 workplace 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. Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. 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.
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| 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.: Remove and wash contaminated clothing before re-use. Skin should be washed after contact. Footwear protecting against chemicals. |
| 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Repulsive</td>
</tr>
</tbody>
</table>

**Safety data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point</td>
<td>&lt; -17.8 °C (&lt; -0.0 °F) Method: open cup estimated</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Thermal decomposition</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>Mixture</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Pour point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>-45.5 °C (-49.9 °F)</td>
</tr>
</tbody>
</table>
### Boiling point/boiling range
50 - 76.6 °C (122 - 169.9 °F)

### Vapor pressure
7.20 PSI at 37.8 °C (100.0 °F)

### Relative density
0.822 at 15.6 °C (60.1 °F)

### Density
6.84 L/G at 15.6 °C (60.1 °F)

### Water solubility
Slightly soluble

### Partition coefficient: n-octanol/water
No data available

### Viscosity, kinematic
No data available

### Relative vapor density
1 (Air = 1.0)

### Evaporation rate
> 1

### Percent volatile
> 99 %

## SECTION 10: Stability and reactivity

### Chemical stability
This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### Possibility of hazardous reactions
- **Conditions to avoid**: Heat, flames and sparks.
- **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

### Scentinel® P Gas Odorant

#### Acute oral toxicity
- **LD50 Oral**: 2,673 mg/kg
- **Species**: Rat
- **Method**: Acute toxicity estimate

---

**Sds Number:** 100000014194

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Scentinel® P Gas Odorant

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Acute inhalation toxicity: Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Scentinel® P Gas Odorant
Acute dermal toxicity: LD50 Dermal: > 2,000 mg/kg
Species: Rabbit
Method: Acute toxicity estimate

Scentinel® P Gas Odorant
Skin irritation: May irritate skin.

Scentinel® P Gas Odorant
Eye irritation: Vapors may cause irritation to the eyes, respiratory system and the skin.

Scentinel® P Gas Odorant
Sensitization: Causes sensitization. largely based on animal evidence.

Repeated dose toxicity

t-Butyl Mercaptan: Species: Rat, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 9, 97, 196 ppm
Exposure time: 13 wks
Number of exposures: 6 hrs/d, 5 d/wk
NOEL: > 196 ppm

Species: Rat, Male and female
Sex: Male and female
Application Route: oral gavage
Dose: 10, 50, 200 mg/kg bw/day
Exposure time: 42-53 days
Number of exposures: Daily
NOEL: 50 mg/kg bw/day
Lowest observable effect level: 200 mg/kg bw/day
Method: OECD Guideline 422

Species: Rat, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 25.1, 99.6, 403.4 ppm
Exposure time: 13 wks
Number of exposures: 6 hrs/d, 5 d/wk
NOEL: 99.6 ppm
Lowest observable effect level: 403.4 ppm
Method: OECD Guideline 413
Target Organs: Liver, Kidney, Blood, Upper respiratory tract
Information given is based on data obtained from similar substances.

Reproductive toxicity

t-Butyl Mercaptan: Species: Rat
Sex: male and female
Application Route: oral gavage

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Dose: 10, 50, 200 mg/kg bw/day
Number of exposures: Daily
Test period: 42-53 days
Method: OECD Guideline 422
NOAEL Parent: 200 mg/kg bw/day
NOAEL F1: 50 mg/kg bw/day
No adverse effects expected

Developmental Toxicity

t-Butyl Mercaptan

Species: Mouse
Application Route: Inhalation
Dose: 11, 99, 195 ppm
Exposure time: GD 6-16
Number of exposures: 6 hrs/d
NOAEL Teratogenicity: > = 195 ppm
NOAEL Maternal: > = 195 ppm

Species: Rat
Application Route: Inhalation
Dose: 11, 99, 195 ppm
Exposure time: GD6-19
Number of exposures: 6 hrs/d
NOAEL Teratogenicity: > =195 ppm
NOAEL Maternal: > = 195 ppm

Species: Rat
Application Route: oral gavage
Dose: 10, 50, 200 mg/kg bw/day
Exposure time: 42-53 days
Number of exposures: Daily
NOAEL Teratogenicity: 50 mg/kg bw /day
NOAEL Maternal: 200 mg/kg bw /day

Scentinel® P Gas Odorant
Aspiration toxicity

May be harmful if swallowed and enters airways.

CMR effects

t-Butyl Mercaptan

Carcinogenicity: Not available
Mutagenicity: Did not show mutagenic effects in animal experiments.
Teratogenicity: Did not show teratogenic effects in animal experiments.
Reproductive toxicity: No toxicity to reproduction

Scentinel® P Gas Odorant
Further information

Solvents may degrease the skin.

SECTION 12: Ecological information

Toxicity to fish

Isopropyl Mercaptan

LC50: 34 mg/l
Exposure time: 96 h
semi-static test Analytical monitoring: yes
Method: OECD Test Guideline 203

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Information given is based on data obtained from similar substances.

t-Butyl Mercaptan
- LC50: 34 mg/l
- Exposure time: 96 h
- Species: Oncorhynchus mykiss (rainbow trout)
- semi-static test Method: OECD Test Guideline 203

n-Propyl Mercaptan
- LC50: 1.3 mg/l
- Exposure time: 96 h
- Species: Pimephales promelas (fathead minnow)
- Analytical monitoring: yes
- Test substance: yes
- Method: OECD Test Guideline 203
- Toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates

Isopropyl Mercaptan
- EC50: 0.25 - 0.5 mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- test static Method: OECD Test Guideline 202

T-Butyl Mercaptan
- EC50: 6.7 mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- test static Method: OECD Test Guideline 202

n-Propyl Mercaptan
- EC50: 0.07 mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- Analytical monitoring: yes
- Test substance: yes
- Method: OECD Test Guideline 202
- Very toxic to aquatic organisms.

Toxicity to algae

Isopropyl Mercaptan
- ErC50: 21.9 mg/l
- Exposure time: 72 h
- Species: Pseudokirchneriella subcapitata (green algae)
- test static Method: OECD Test Guideline 201

T-Butyl Mercaptan
- EC50: 24 mg/l
- Exposure time: 72 h
- Species: Pseudokirchneriella subcapitata (green algae)
- Method: OECD Test Guideline 201

**M-Factor**

propane-2-thiol
- M-Factor (Acute Aquat. Tox.) 1

M-Factor (Chronic Aquat. Tox.) 1

propane-1-thiol
- M-Factor (Acute Aquat. Tox.) 10
Elimination information (persistence and degradability)

Bioaccumulation

<table>
<thead>
<tr>
<th>t-Butyl Mercaptan</th>
<th>Bioconcentration factor (BCF): 12</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bioaccumulation is unlikely.</td>
</tr>
</tbody>
</table>

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

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

Results of PBT assessment

<table>
<thead>
<tr>
<th>Isopropyl Mercaptan</th>
<th>Non-classified PBT substance, Non-classified vPvB substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>t-Butyl Mercaptan</td>
<td>Non-classified PBT substance, Non-classified vPvB substance</td>
</tr>
</tbody>
</table>

Additional ecological information : Very toxic 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.
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)
- Respiratory or skin sensitization

**CERCLA Reportable Quantity**
- This material does not contain any components with a CERCLA RQ.

**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 Ingredients: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC’s (40 CFR 60.489).

US State Regulations

Pennsylvania Right To Know:

- Isopropyl Mercaptan - 75-33-2
- t-Butyl Mercaptan - 75-66-1
- n-Propyl Mercaptan - 107-03-9

California Prop. 65 Ingredients: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
NOTIFICATION STATUS

Europe REACH : On the inventory, or in compliance with the inventory
United States of America (USA) : On TSCA Inventory
TSCA
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 : 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 : 99750

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.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
</tr>
<tr>
<td>LD50</td>
</tr>
<tr>
<td>AIIC</td>
</tr>
<tr>
<td>LOAEL</td>
</tr>
<tr>
<td>DSL</td>
</tr>
<tr>
<td>NFPA</td>
</tr>
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<td>NDSS</td>
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<tr>
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<td>NTP</td>
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<td>EOSCA</td>
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<tr>
<td>PEL</td>
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</table>

SDS Number:100000014194
<table>
<thead>
<tr>
<th>EINECS</th>
<th>European Inventory of Existing Chemical Substances</th>
<th>PICCS</th>
<th>Philippines Inventory of Commercial Chemical Substances</th>
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<tbody>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
<td>TWA</td>
<td>Time Weighted Average</td>
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<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
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<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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<td>&lt;=</td>
<td>Less Than or Equal To</td>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
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