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

Product information

Trade name: n-Pentane
Material: 1113455, 1113456, 1026844, 1026843, 1112936, 1112935, 1111706, 1111587, 1024852, 1016688, 1025132, 1021830, 1026845, 1016689

Use: Solvent

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:
North America: CHEMTREC 800.424.9300 or 703.527.3887
Asia: CHEMCALL (+800 2436 2255)
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department: Product Safety and Toxicology Group
E-mail address: MSDS@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.

Emergency Overview

Danger
Form: Liquid  Physical state: Liquid  Color: Colorless  Odor: Strong gasoline
OSHA Hazards: Flammable Liquid, Aspiration hazard, Specific target organ systemic toxicity - single exposure

Classification:
- Flammable liquids, Category 2
- Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system

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Aspiration hazard, Category 1

Labeling

Symbol(s): 

Signal Word: Danger

Hazard Statements: 

- H225: Highly flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H336: May cause drowsiness or dizziness.

Precautionary Statements: 

Prevention: 

- P210: Keep away from heat/sparks/open flames/hot surfaces.
- 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.
- 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 or doctor/physician.
- 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.
- P312: Call a POISON CENTER or doctor/physician if you feel unwell.
- P331: Do NOT induce vomiting.
- 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.
- 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: 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.
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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:
- n-Pentane (Commercial Grade)
- n-Pentane (greater than 95%)
- n-Pentane (Pure Grade)
- Pentane, normal, 95%
- Pentane
- Amyl hydride

Molecular formula: C5H12

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Pentane</td>
<td>109-66-0</td>
<td>95 - 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. Protect unharmed eye. Keep eye wide open while rinsing. 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. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: < -40 °C (< -40 °F)
Method: Tag closed cup

Autoignition temperature: 242.8 °C (469.0 °F)
estimated

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

Unsuitable extinguishing media:
High volume water jet.
media

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 fire fighting 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. Use only explosion-proof equipment. 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 : Carbon oxides.

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 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 static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Container may be opened only under exhaust ventilation hood. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection : Do not spray on an open flame or any other incandescent
against fire and explosion material. Use only explosion-proof equipment. 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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Pentane</td>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>1,000 ppm, 2,950 mg/m³</td>
<td>(b).</td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>600 ppm, 1,800 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>STEL</td>
<td>750 ppm, 2,250 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>TWA</td>
<td>600 ppm</td>
<td></td>
</tr>
</tbody>
</table>

(b) The value in mg/m³ is approximate.

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: Eye wash bottle with pure water. Tightly fitting safety goggles.
### n-Pentane

**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**
- Form: Liquid
- Physical state: Liquid
- Color: Colorless
- Odor: Strong gasoline

**Safety data**
- Flash point: \(< -40 °C (\(< -40 °F)\)
  - Method: Tag closed cup
- Lower explosion limit: 1.42 \%(V)
- Upper explosion limit: 7.8 \%(V)

**Oxidizing properties**: no

**Autoignition temperature**: 242.8 °C (469.0 °F) estimated

**Molecular formula**: C₅H₁₂

**Molecular weight**: 72.17 g/mol

**pH**: Not applicable

**Pour point**: No data available

**Boiling point/boiling range**: 36 °C (97 °F) estimated

**Vapor pressure**: 513.00 MMHG at 25 °C (77 °F)

**Relative density**: 0.63, 15.6 °C(60.1 °F)

**Density**: 0.63 G/ML

**Water solubility**: Negligible

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

**Viscosity, dynamic**: 0.223 cP

**Relative vapor density**: 2.48
  (Air = 1.0)
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Evaporation rate : 1

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, sparks, fire, and oxidizing agents.
Materials to avoid : May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute oral toxicity
n-Pentane : LD50: > 2,000 mg/kg
Species: rat

Acute inhalation toxicity
n-Pentane : LC50: > 18 mg/l
Exposure time: 4 h
Species: rat
Test atmosphere: dust/mist

Acute dermal toxicity
n-Pentane : LD50: unknown

n-Pentane Skin irritation : Non persistent irritation.
n-Pentane Eye irritation : Non persistent irritation.

Sensitization
n-Pentane : Did not cause sensitization on laboratory animals.

Repeated dose toxicity
n-Pentane : Species: rat
Application Route: Inhalation
Dose: 0, 3000 ppm
Exposure time: 16 wk
Number of exposures: 12 h/d, 7 d/wk
**n-Pentane**

<table>
<thead>
<tr>
<th>NOEL:</th>
<th>3,000 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species:</td>
<td>rat</td>
</tr>
<tr>
<td>Application Route:</td>
<td>Inhalation</td>
</tr>
<tr>
<td>Dose:</td>
<td>0, 1000, 3000, 10000 ppm</td>
</tr>
<tr>
<td>Exposure time:</td>
<td>2 wk</td>
</tr>
<tr>
<td>Number of exposures:</td>
<td>6 h/d, 5 d/wk</td>
</tr>
<tr>
<td>NOEL:</td>
<td>1,000 ppm</td>
</tr>
</tbody>
</table>

**Reproductive toxicity**

<table>
<thead>
<tr>
<th>n-Pentane</th>
<th>Species:</th>
<th>rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Route:</td>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>Dose:</td>
<td>0, 5, 10, 20 mg/l</td>
<td></td>
</tr>
<tr>
<td>Exposure time:</td>
<td>13 wk</td>
<td></td>
</tr>
<tr>
<td>Test period:</td>
<td>6hrs/day, 5 days/wk</td>
<td></td>
</tr>
<tr>
<td>NOAEL Parent:</td>
<td>20 mg/l</td>
<td></td>
</tr>
<tr>
<td>no abnormalities observed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Species: | rat |
| Sex: | male |
| Application Route: | Inhalation |
| Dose: | 0, 5, 10, 20 mg/l |
| Exposure time: | 13 wk |
| Test period: | 6hrs/day, 5 days/wk |
| NOAEL Parent: | 20 mg/l |
| no abnormalities observed |

**Developmental Toxicity**

<table>
<thead>
<tr>
<th>n-Pentane</th>
<th>Species:</th>
<th>rat</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Route:</td>
<td>Inhalation</td>
<td></td>
</tr>
<tr>
<td>Dose:</td>
<td>0, 1000, 3000, 10000 ppm</td>
<td></td>
</tr>
<tr>
<td>Number of exposures:</td>
<td>6 h/d</td>
<td></td>
</tr>
<tr>
<td>Test period:</td>
<td>GD 6-15</td>
<td></td>
</tr>
<tr>
<td>NOAEL Teratogenicity:</td>
<td>10,000 ppm</td>
<td></td>
</tr>
</tbody>
</table>

**Aspiration toxicity**

<table>
<thead>
<tr>
<th>n-Pentane</th>
<th>May be fatal if swallowed and enters airways.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.</td>
<td></td>
</tr>
</tbody>
</table>

**Further information**

| n-Pentane | Concentrations substantially above the TLV value may cause narcotic effects. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Solvents may degrease the skin. |

**SECTION 12: Ecological information**

**Toxicity to fish**

<table>
<thead>
<tr>
<th>n-Pentane</th>
<th>LC50: 4.3 mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure time:</td>
<td>96 h</td>
</tr>
<tr>
<td>Species:</td>
<td>Oncorhynchus mykiss (rainbow trout)</td>
</tr>
</tbody>
</table>

**MSDS Number:** 100000014541
Toxicity to daphnia and other aquatic invertebrates

n-Pentane : EC50: 2.7 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae

n-Pentane : EbC50: 10.7 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)

Bioaccumulation

n-Pentane : Accumulation in aquatic organisms is unlikely.

Biodegradability

n-Pentane : This material is expected to be readily biodegradable.

Ecotoxicology Assessment

Acute aquatic toxicity
n-Pentane : Toxic to aquatic life.

Chronic aquatic toxicity
n-Pentane : Toxic to aquatic life with long lasting effects.

Toxicity Data on Soil
n-Pentane : No data available

Other organisms relevant to the environment
n-Pentane : No data available

Impact on Sewage Treatment
n-Pentane : No data available

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

The information in this MSDS pertains only to the product as shipped.
**n-Pentane**

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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 MSDS and the bill of lading.

**US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)**
- UN1265, PENTANES, 3, II

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**
- UN1265, PENTANES, 3, II, (< -40 °C), MARINE POLLUTANT, (N-PENTANE)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**
- UN1265, PENTANES, 3, II

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**
- UN1265, PENTANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (N-PENTANE)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**
- UN1265, PENTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (N-PENTANE)

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**
- UN1265, PENTANES, 3, II, ENVIRONMENTALLY HAZARDOUS, (N-PENTANE)

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

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## SECTION 15: Regulatory information

### National legislation

**SARA 311/312 Hazards**: Fire Hazard  
Acute Health Hazard

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

**SARA 313 Ingredients**: SARA 313: 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 12 (40 CFR 61).

### US State Regulations

**Pennsylvania Right To Know**: n-Pentane - 109-66-0

**New Jersey Right To Know**: n-Pentane - 109-66-0

**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**: Not in compliance with the inventory  
**United States of America TSCA**: On the inventory, or in compliance with the inventory
n-Pentane

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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 : On the inventory, or in compliance with the inventory
Korea KECl : 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: 1
Fire Hazard: 4
Reactivity Hazard: 0

Further information

Legacy MSDS Number : E039

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The information provided in this Material 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>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
<td></td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
<td></td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
<td></td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
<td></td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
<td></td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
<td></td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
<td></td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
<td></td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
<td></td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
<td></td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
<td></td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
<td></td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
<td></td>
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<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
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<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration</td>
<td></td>
</tr>
<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
<td></td>
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</tbody>
</table>

MSDS Number: 100000014541
<table>
<thead>
<tr>
<th>Values</th>
<th>GHS</th>
<th>RCRA</th>
<th>GHS</th>
<th>RCRA</th>
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<tbody>
<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
<td>STEL</td>
<td>Short-term Exposure Limit</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>
<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>
<td>Threshold Limit Value</td>
</tr>
<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>
<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</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>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>&lt;=</td>
<td>Less Than or Equal To</td>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
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