Isopropyl Mercaptan

Product Name: Isopropyl Mercaptan
Material: 1083608, 1029885, 1021450, 1028387, 1021451, 1027451, 1021448, 1031054, 1021449

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

Local: Chevron Phillips Chemicals (Shanghai) Corporation
Room 1810-1812, Shanghai Mart,
2299 Yan An Road (W),
Shanghai, PRC 200336

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
GHS Classification and Labeling: Follow GB 13690, GB 15258 and GB 30000.2 to GB 30000.29 (GHS 2011)

Emergency Overview

SDS Number:100000068542 1/13
SAFETY DATA SHEET

Isopropyl Mercaptan

Version 2.1

Revision Date 2018-09-04

Danger

Form: Liquid  Physical state: Liquid  Color: Clear  Odor: Repulsive

Hazard Statements: Highly flammable liquid and vapor. May be harmful if swallowed. May cause an allergic skin reaction. May be harmful if swallowed and enters airways. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Classification

: Flammable liquids, Category 2
  Acute toxicity, Category 5, Oral
  Skin sensitization, Category 1
  Aspiration hazard, Category 2
  Short-term (acute) aquatic hazard, Category 1
  Long-term (chronic) aquatic hazard, Category 1

Labeling

Symbol(s): 

Signal Word: Danger

Hazard Statements: H225: Highly flammable liquid and vapor.
  H303: May be harmful if swallowed.
  H305: May be harmful if swallowed and enters airways.
  H317: May cause an allergic skin reaction.
  H410: Very toxic to aquatic life with long lasting effects.

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.
  P272: Contaminated work clothing should not be allowed out of the workplace.
  P273: Avoid release to the environment.
  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.
  P312: Call a POISON CENTER/doctor if you feel unwell.
  P331: Do NOT induce vomiting.
  P333 + P313: If skin irritation or rash occurs: Get medical advice/attention.
  P362 + P364: Take off contaminated clothing and wash it before reuse.
Isopropyl Mercaptan

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Synonyms</th>
<th>2-propanethiol IPM IC3SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular formula</td>
<td>C3H8S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. / EINECS-No.</th>
<th>Concentration [wt%]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Mercaptan</td>
<td>75-33-2</td>
<td>95 - 100</td>
</tr>
<tr>
<td>n-Propyl Mercaptan</td>
<td>107-03-9</td>
<td>1 - 5</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. 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. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: -34 °C (-29 °F) estimated

Autoignition temperature: No data available

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

SAFETY DATA SHEET

Version 2.1

Revision Date 2018-09-04

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 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: Sulfur.

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. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

SDS Number:100000068542
Advice on protection against fire and explosion: 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.

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

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. Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
**Isopropyl Mercaptan**

**Version 2.1**

Wear as appropriate: Flame retardant antistatic protective clothing. 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td></td>
</tr>
<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>
<tr>
<td><strong>Safety data</strong></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>-34 °C (-29 °F) 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>yes</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Molecular formula</td>
<td>C3H8S</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>90.2 g/mol</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Pour point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>51 °C (124 °F)</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>8.80 PSI at 37.8 °C (100.0 °F)</td>
</tr>
<tr>
<td>Relative density</td>
<td>0.82 at 15.6 °C (60.1 °F)</td>
</tr>
<tr>
<td>Water solubility</td>
<td>slightly soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>0.369 cP</td>
</tr>
<tr>
<td>Relative vapor density</td>
<td>2.62 (Air = 1.0)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>1</td>
</tr>
</tbody>
</table>
Isopropyl Mercaptan

Version 2.1

Percent volatile: > 99 %

SECTION 10: Stability and reactivity

Reactivity: Stable under recommended storage conditions.

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: Hazardous polymerization does not occur.

Further information: No decomposition if stored and applied as directed.

Hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid: No data available.

Hazardous decomposition products: Sulfur

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

SECTION 11: Toxicological information

Acute oral toxicity

Isopropyl Mercaptan: LD50: > 2,000 - < 5,000 mg/kg
Species: Rat
Sex: male

n-Propyl Mercaptan: LD50: 1,790 mg/kg
Species: Rat
Sex: male
Method: OECD Test Guideline 420

Acute inhalation toxicity

Isopropyl Mercaptan: LC50: > 32.24 mg/l
Exposure time: 4 h
Species: Rat
Sex: male and female
Test atmosphere: vapor
Method: OECD Test Guideline 403
Test substance: yes
### Isopropyl Mercaptan

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50</th>
<th>Exposure time</th>
<th>Species</th>
<th>Test atmosphere</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propyl Mercaptan</td>
<td>&gt; 5.67 mg/l</td>
<td>4 h</td>
<td>Rat</td>
<td>Vapor</td>
<td>OECD Test Guideline 403</td>
</tr>
</tbody>
</table>

An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

#### Acute dermal toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50</th>
<th>Species</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Mercaptan</td>
<td>&gt; 2,000 mg/kg</td>
<td>Rat</td>
<td>OECD Test Guideline 402</td>
</tr>
<tr>
<td>n-Propyl Mercaptan</td>
<td>&gt; 2,000 mg/kg</td>
<td>Rabbit</td>
<td>OECD Test Guideline 402</td>
</tr>
</tbody>
</table>

#### Skin irritation

- Isopropyl Mercaptan: No skin irritation

#### Eye irritation

- Isopropyl Mercaptan: Slight irritation.

#### Sensitization

- Isopropyl Mercaptan: The product is a skin sensitizer, sub-category 1B, largely based on animal evidence.

#### Repeated dose toxicity

<table>
<thead>
<tr>
<th>Compound</th>
<th>Species</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Number of exposures</th>
<th>NOEL</th>
<th>Lowest observable effect level</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Mercaptan</td>
<td>Rat, male and female</td>
<td>Inhalation</td>
<td>13 wks</td>
<td>6hrs/d, 5 d/wk</td>
<td>0.367 mg/l 99.6 ppm</td>
<td>1.488 mg/l 403.4 ppm</td>
<td>OECD Test Guideline 413</td>
</tr>
</tbody>
</table>

Target Organs: Blood, Liver, Kidney, Upper respiratory tract. Information given is based on data obtained from similar substances.
Isopropyl Mercaptan

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  
Lowest observable effect level: 200 mg/kg  
Method: OECD Guideline 422  
Information given is based on data obtained from similar substances.

n-Propyl 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  
Method: OECD Test Guideline 413  
Information given is based on data obtained from similar substances.

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  
Information given is based on data obtained from similar substances.

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)  
static test  
Test substance: yes
Isopropyl Mercaptan

Method: OECD Test Guideline 202

n-Propyl Mercaptan
EC50: 70 µg/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)
static test Method: OECD Test Guideline 201

n-Propyl Mercaptan: ErC50: 3 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (algae)
Growth inhibition Method: OECD Test Guideline 201
Information given is based on data obtained from similar substances.

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

M-Factor
propane-1-thiol:
M-Factor (Acute Aquat. Tox.) 10

Toxicity to bacteria
n-Propyl Mercaptan: EC50: 880.5 mg/l
Exposure time: 3 h
Respiration inhibition
Information given is based on data obtained from similar substances.

Biodegradability
Isopropyl Mercaptan: aerobic
Result: Not readily biodegradable.
0 %
Testing period: 28 Days
Test substance: yes
Method: OECD Test Guideline 301D

n-Propyl Mercaptan: aerobic
Result: Not readily biodegradable.
17 %
Testing period: 28 Days
Method: OECD Test Guideline 301
## Results of PBT assessment

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Mercaptan</td>
<td>Non-classified PBT substance, Non-classified vPvB substance</td>
</tr>
<tr>
<td>n-Propyl Mercaptan</td>
<td>Non-classified PBT substance, Non-classified vPvB substance</td>
</tr>
</tbody>
</table>

## Additional ecological information

**Ecotoxicology Assessment**

<table>
<thead>
<tr>
<th>Hazard Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short-term (acute) aquatic</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>Long-term (chronic) aquatic</td>
<td>Very toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

## 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)**

UN2402, PROPANETHIOLS, 3, II

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

UN2402, PROPANETHIOLS, 3, II, (-34 °C), MARINE POLLUTANT, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

UN2402, PROPANETHIOLS, 3, II
# Isopropyl Mercaptan

## Version 2.1

**Revision Date:** 2018-09-04

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

UN2402, PROPANETHIOLS, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

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

UN2402, PROPANETHIOLS, 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

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

UN2402, PROPANETHIOLS, 3, II, ENVIRONMENTALLY HAZARDOUS, (ISOPROPYL MERCAPTAN, N-PROPYL MERCAPTAN)

---

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

---

**SECTION 15: Regulatory information**

<table>
<thead>
<tr>
<th>Classification and Labeling of Commonly Used Dangerous Chemical Substances</th>
<th>Primary label: Combustible Liquid.</th>
</tr>
</thead>
</table>

**Notification status**

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

**Other regulations**


---

**SDS Number:** 100000068542

12/13
Isopropyl Mercaptan

Version 2.1

Revision Date 2018-09-04

SECTION 16: Other information

Further information
Legacy SDS Number : 38500

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>Acronym</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>
</tr>
<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
</tr>
<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
</tr>
<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
</tr>
<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
</tr>
<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</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>
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<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVGB</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>
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SDS Number:100000068542