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

**Product information**

Product Name: Methyl Mercaptan  
Material: 1121915, 1080456, 1026775, 1026821, 1021561, 1026822, 1026826, 1026825, 1028622

Use: Chemical intermediate

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

**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 gases, Category 1  
- Gases under pressure, Liquefied gas  
- Acute toxicity, Category 3, Inhalation
SAFETY DATA SHEET
Methyl Mercaptan
Version 1.4
Revision Date 2019-11-07

Labeling

Symbol(s) : [Fire, Exclamation, Skull and Crossbones]
Symbol(s) Signal Word : Danger

                    H280: Contains gas under pressure; may explode if heated.
                    H331: Toxic if inhaled.

Precautionary Statements : Prevention:
                           P210  Keep away from heat/sparks/open flames/hot surfaces.
                           No smoking.
                           P261  Avoid breathing dust/fume/gas/mist/vapors/spray.
                           P271  Use only outdoors or in a well-ventilated area.
                           Response:
                           P304 + P340 + P311  IF INHALED: Remove person to fresh
                           air and keep comfortable for breathing. Call a POISON
                           CENTER/doctor.
                           P377  Leaking gas fire: Do not extinguish, unless leak can be
                           stopped safely.
                           P381  Eliminate all ignition sources if safe to do so.
                           P391  Collect spillage.
                           Storage:
                           P403 + P233  Store in a well-ventilated place. Keep container
                           tightly closed.
                           P410 + P403  Protect from sunlight. Store in a well-ventilated
                           place.
                           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 : Thiomethane
            MESH
            Methyl Mercaptan-D
            MM
            MESH-D
            Methane Thiol

Molecular formula : CH3SH

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Methyl Mercaptan

Component | CAS-No. | Weight %
--- | --- | ---
Methyl Mercaptan | 74-93-1 | 100

May contain trace hydrogen sulfide below 0.2 wt%.

SECTION 4: First aid measures

General advice: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

If inhaled: Call a physician or poison control center immediately. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear.

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: -56°C (-69°F)
Autoignition temperature: No data available

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

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: 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. 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.
SAFETY DATA SHEET

Methyl Mercaptan

Hazardous decomposition products : Sulfur 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.

SECTION 7: Handling and storage

Handling

Advice on safe handling : For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on 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 : Prevent unauthorized access. 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.

Use : Chemical intermediate

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Mercaptan</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.5 ppm,</td>
<td>liver dam,</td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1</td>
<td>C</td>
<td>10 ppm, 20 mg/m3</td>
<td>(b), (C),</td>
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<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
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<td>Hydrogen Sulfide</td>
<td>ACGIH</td>
<td>TWA</td>
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<td></td>
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<td></td>
<td>OSHA Z-2</td>
<td>CEIL</td>
<td>20 ppm,</td>
<td></td>
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<tr>
<td></td>
<td>OSHA Z-2</td>
<td>Peak</td>
<td>50 ppm,</td>
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<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>10 ppm, 14 mg/m3</td>
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<td></td>
<td>OSHA Z-1-A</td>
<td>STEL</td>
<td>15 ppm, 21 mg/m3</td>
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</table>

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Methyl Mercaptan

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
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</thead>
<tbody>
<tr>
<td>Methyl Mercaptan</td>
<td>74-93-1</td>
<td>Immediately Dangerous to Life or Health</td>
<td>1995-03-01</td>
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<tr>
<td></td>
<td></td>
<td>Concentration Value</td>
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<tr>
<td></td>
<td></td>
<td>150 parts per million</td>
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</table>

**US**

<table>
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<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Sampling time</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Mercaptan</td>
<td>74-93-1</td>
<td>Methemoglobin: 1.5 % Hb (In blood)</td>
<td>During or at the end of the shift</td>
<td>2010-03-01</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 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: Full-Face Supplied-Air Respirator. 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.

**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: Footwear protecting against chemicals.

**Hygiene measures**: Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.
SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

**Appearance**
- Form: Compressed gas
- Physical state: Gaseous
- Color: Colorless
- Odor: Rotten eggs
- Odor Threshold: Not applicable

**Safety data**
- Flash point: -56°C (-69°F)
- Lower explosion limit: 3.9 %(V)
- Upper explosion limit: 21.8 %(V)
- Oxidizing properties: No
- Autoignition temperature: No data available
- Molecular formula: CH3SH
- pH: Not applicable
- Pour point: No data available
- Boiling point/boiling range: 4.5-7.5°C (40.1-45.5°F)
- Vapor pressure: 42.50 PSI at 37.8°C (100.0°F)
- Relative density: 0.875 at 15.6 °C (60.1 °F)
- Density: No data available
- Water solubility: Slightly soluble
- Viscosity, kinematic: Not applicable
- Relative vapor density: 1.66 at 15.6°C (60.1°F) (Air = 1.0)
- Evaporation rate: > 1
- Percent volatile: > 99 %

SECTION 10: Stability and reactivity
# Methyl Mercaptan

## 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 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
- Heat, flames and sparks.

### Materials to avoid
- May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

### Hazardous decomposition products
- Sulfur oxides

### Other data
- No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### Acute inhalation toxicity
- **Methyl Mercaptan**
  - LC50: 675 ppm
  - Exposure time: 4 h
  - Species: Rat
  - Test atmosphere: gas
  - Method: OECD Test Guideline 403

### Sensitization
- **Methyl Mercaptan**: Does not cause skin sensitization. Information given is based on data obtained from similar substances.

### Repeated dose toxicity
- **Methyl Mercaptan**: Species: Rat, male
  - Sex: male
  - Application Route: Inhalation
  - Dose: 0, 2, 17, 57 ppm
  - Exposure time: 13 wk
  - Number of exposures: 7 h/d, 5 d/wk
  - NOEL: 0.033 mg/l 17 ppm
  - Lowest observable effect level: 0.118 mg/l 57 ppm
  - Method: OECD Guideline 413
  - Target Organs: Liver
### Genotoxicity in vitro

**Methyl Mercaptan**
- **Test Type:** Ames test
- **Result:** negative

### Genotoxicity in vivo

**Methyl Mercaptan**
- **Test Type:** Mouse micronucleus assay
- **Result:** negative

### Reproductive toxicity

**Methyl Mercaptan**
- **Species:** Rat
- **Sex:** female
- **Application Route:** oral gavage
- **Dose:** 0, 5, 15, 45 mg/kg
- **Number of exposures:** daily
- **Test period:** 8-9 wks
- **NOAEL Parent:** 45 mg/kg

**Species:** Rat
- **Sex:** male
- **Application Route:** oral gavage
- **Dose:** 0, 5, 15, 45 mg/kg
- **Number of exposures:** daily
- **Test period:** 8 wks
- **NOAEL Parent:** 45 mg/kg

### Developmental Toxicity

**Methyl Mercaptan**
- **Species:** Rat
- **Application Route:** oral gavage
### Section 1: Toxicological Information

**Methyl Mercaptan**

**Aspiration toxicity**
- No aspiration toxicity classification.

**Further information**
- No data available.

### Section 12: Ecological Information

**Toxicity to fish**
- **Methyl Mercaptan**
  - LC50: 1.8 mg/l
  - Exposure time: 96 h
  - Species: *Danio rerio* (Zebra Fish)
  - Information given is based on data obtained from similar substances.

**Toxicity to daphnia and other aquatic invertebrates**
- **Methyl Mercaptan**
  - EC50: 1.32 - 2.46 mg/l
  - Exposure time: 48 h
  - Species: *Daphnia magna* (Water flea)
  - Information given is based on data obtained from similar substances.

**Toxicity to algae**
- **Methyl Mercaptan**
  - ErC50: 15 mg/l
  - Exposure time: 72 h
  - Species: *Pseudokirchneriella subcapitata* (green algae)
  - Information given is based on data obtained from similar substances.

  - EbC50: 6.3 mg/l
  - Exposure time: 72 h
  - Species: *Pseudokirchneriella subcapitata* (green algae)
  - Information given is based on data obtained from similar substances.
Methyl Mercaptan

Methyl Mercaptan

Result: Readily biodegradable.
64%
Testing period: 28 d
Information given is based on data obtained from similar substances.

Additional ecological information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard
Methyl Mercaptan: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard
Methyl Mercaptan: 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.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)
UN1064, METHYL MERCAPTAN, 2.3 (2.1), TOXIC INHALATION HAZARD ZONE C, MARINE POLLUTANT, (METHYL MERCAPTAN), RQ (METHYL MERCAPTAN)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1064, METHYL MERCAPTAN, 2.3 (2.1), (-56°C), MARINE POLLUTANT, (METHYL
Methyl Mercaptan

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN1064, 2.3: NOT PERMITTED FOR TRANSPORT

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN1064, METHYL MERCAPTAN, 2.3 (2.1), (B/D), ENVIRONMENTALLY HAZARDOUS, (METHYL MERCAPTAN)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN1064, METHYL MERCAPTAN, 2.3 (2.1, (13)), ENVIRONMENTALLY HAZARDOUS, (METHYL MERCAPTAN)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN1064, METHYL MERCAPTAN, 2.3 (2.1), ENVIRONMENTALLY HAZARDOUS, (METHYL MERCAPTAN)

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)
- Gases under pressure
- Acute toxicity (any route of exposure)

CERCLA Reportable Quantity: 100 lbs
Methyl Mercaptan

SARA 302 Reportable Quantity: 100 lbs
Methyl Mercaptan

SARA 302 Threshold Planning Quantity:

SARA 304 Reportable Quantity:
- Methyl Mercaptan 74-93-1 500 lbs
- Methyl Mercaptan 74-93-1 100 lbs
SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:

- Methyl Mercaptan - 74-93-1

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

- Methyl Mercaptan - 74-93-1

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: Methyl Mercaptan - 74-93-1

California Prop. 65 Components: This product, as shipped, does not contain any carcinogens or reproductive toxins presently known by the State of California to cause cancer or reproductive toxicity at a level of exposure subject to the requirements of California Proposition 65.

Notification status

Europe REACH: Not in compliance with the inventory
Switzerland CH INV: On the inventory, or in compliance with the inventory
United States of America (USA) TSCA: On or in compliance with the active portion of the TSCA inventory
Canada DSL: All components of this product are on the Canadian DSL
Methyl Mercaptan

Version 1.4

Australia AICS : On the inventory, or in compliance with the inventory
New Zealand NZIoC : On the inventory, or in compliance with the inventory
Japan ENCS : On the inventory, or in compliance with the inventory
Korea KECI : A substance(s) in this product was not registered, notified to be registered, or exempted from registration by CPChem according to K-REACH regulations. Importation or manufacture of this product is still permitted provided the Korean Importer of Record has themselves notified the substance.

Philippines PICCS : On the inventory, or in compliance with the inventory
China IECSC : On the inventory, or in compliance with the inventory
Taiwan TCSI : On the inventory, or in compliance with the inventory

SECTION 16: Other information

NFPA Classification : Health Hazard: 3
                     Fire Hazard: 4
                     Reactivity Hazard: 0

Further information

Legacy SDS Number : 646280

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>LD50</td>
<td>Lethal Dose 50%</td>
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<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
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<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
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<td>DSL</td>
<td>Canada, Domestic Substances List</td>
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<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
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<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
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<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<td>CNS</td>
<td>Central Nervous System</td>
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<td>NTP</td>
<td>National Toxicology Program</td>
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<td>Chemical Abstract Service</td>
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<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<td>International Agency for Research on Cancer</td>
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<tr>
<td>UVCB</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>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
</tr>
</tbody>
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