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

Product information
Trade name: Methyl Mercaptan
Material: 1080456, 1026775, 1026821, 1021561, 1026822, 1026826, 1026825, 1028622

Use: Chemical intermediate

Company: 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: +800 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

Emergency Overview

Danger
Form: Compressed gas
Physical state: Gaseous
Color: Colorless
Odor: Rotten eggs
OSHA Hazards: Flammable Gas, Compressed Gas, Toxic by inhalation.

GHS Classification
: Flammable gases, Category 1
Gases under pressure, Compressed gas
Acute toxicity, Category 3, Inhalation
Acute aquatic toxicity, Category 1
Chronic aquatic toxicity, Category 1

GHS-Labeling
Methyl Mercaptan

Symbol(s): Danger

Signal Word: Danger

Hazard Statements:
H220: Extremely flammable gas.
H280: Contains gas under pressure; may explode if heated.
H331: Toxic if inhaled.
H401: Toxic to aquatic life.

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.
P273: Avoid release to the environment.

Response:
P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P311: Call a POISON CENTER or doctor/physician.
P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381: Eliminate all ignition sources if safe to do so.

Storage:
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P405: Store locked up.
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.

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:
- Thiomethane
- MESH
- Methyl Mercaptan-D
- MM
- MESH-D
- Methane Thiol

Molecular formula: CH$_3$SH
Methyl Mercaptan

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. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

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 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. 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.
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: Do not breathe vapors/dust. 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.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

US

<table>
<thead>
<tr>
<th>Ingredients</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></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1</td>
<td>C</td>
<td>10 ppm, 20 mg/m³</td>
<td>(b), (C)</td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>0.5 ppm, 1 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

(b) The value in mg/m³ is approximate.
(C) Ceiling limit is to be determined from breathing-zone air samples.

MSDS Number: 100000013972
Methyl Mercaptan

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>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Mercaptan</td>
<td>74-93-1</td>
<td>Immediately Dangerous to Life or Health Concentration Value 150 parts per million</td>
<td>1995-03-01</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 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: 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. Tightly fitting safety goggles.

Skin and body protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear as appropriate: Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus. 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

<table>
<thead>
<tr>
<th>Form</th>
<th>Compressed gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Gaseous</td>
</tr>
</tbody>
</table>

MSDS Number:100000013972 5/13
Methyl Mercaptan

Color: Colorless
Odor: Rotten eggs

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, 15.6 °C (60.1 °F)
Water solubility: Slightly soluble
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

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.
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.
### 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

  Species: rat, male
  - Sex: male
  - Application Route: oral gavage
  - Dose: 5, 15, 45 mg/kg
  - Exposure time: 8 wk
  - Number of exposures: once/d, 7 d/wk
  - NOEL: 15 mg/kg
  - Lowest observable effect level: 45 mg/kg
  - Method: OECD Guideline 422
  - Target Organs: Blood
  - Information given is based on data obtained from similar substances.

  Species: rat, female
  - Sex: female
  - Application Route: oral gavage
  - Dose: 5, 15, 45 mg/kg
  - Exposure time: 9 wk
  - Number of exposures: once/d, 7 d/wk
  - NOEL: 15 mg/kg
  - Lowest observable effect level: 45 mg/kg
  - Method: OECD Guideline 422
  - Target Organs: Blood
  - Information given is based on data obtained from similar substances.

### Reproductive toxicity

**Methyl Mercaptan**
- Species: rat
Methyl Mercaptan

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

Teratogenicity
Methyl Mercaptan
Species: rat
Application Route: oral gavage
Dose: 0, 5, 15, 45 mg/kg
Number of exposures: daily
Test period: 8-9 wks
NOAEL Teratogenicity: 45 mg/kg
NOAEL Maternal: 45 mg/kg

Methyl Mercaptan
Application Route: oral gavage
Dose: 0, 5, 15, 45 mg/kg
Number of exposures: daily
Test period: 8 wks
NOAEL Teratogenicity: 45 mg/kg
NOAEL Maternal: 45 mg/kg

Methyl Mercaptan
Aspiration toxicity
No aspiration toxicity classification.

Methyl Mercaptan
Further information
No data available.

SECTION 12: Ecological information

Ecotoxicity effects
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
EC50: 1.32 - 2.46 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Toxicity to algae
EC50: 6.3 mg/l
Methyl Mercaptan

**Exposure time:** 72 h  
Species: Pseudokirchneriella subcapitata (green algae)

**Biodegradability**

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

**Additional ecological information** : Toxic to aquatic life.

---

### SECTION 13: Disposal considerations

The information in this MSDS 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 MSDS 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 MERCAPTAN)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**

MSDS Number: 100000013972
Methyl Mercaptan

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

<table>
<thead>
<tr>
<th>National legislation</th>
</tr>
</thead>
</table>
| **SARA 311/312 Hazards** | Fire Hazard  
Sudden Release of Pressure Hazard  
Acute Health Hazard |
| CERCLA Reportable Quantity | 100 lbs  
Methyl Mercaptan |
| SARA 302 Reportable Quantity | 100 lbs  
Methyl Mercaptan |
| SARA 302 Threshold Planning Quantity | The following components are subject to reporting levels established by SARA Title III, Section 302:  
Methyl Mercaptan 74-93-1 500 lbs  
Methyl Mercaptan 74-93-1 100 lbs |
| SARA 304 Reportable Quantity |  
Methyl Mercaptan 74-93-1 100 lbs |

MSDS Number:100000013972 10/13
Methyl Mercaptan

Version 1.3

<table>
<thead>
<tr>
<th>SARA 313 Ingredients</th>
<th>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.</th>
</tr>
</thead>
</table>

Clean Air Act

<table>
<thead>
<tr>
<th>Ozone-Depletion Potential</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).</td>
</tr>
</tbody>
</table>

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):

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Methyl Mercaptan - 74-93-1</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>Pennsylvania Right To Know</th>
<th>Methyl Mercaptan - 74-93-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>New Jersey Right To Know</td>
<td>Methyl Mercaptan - 74-93-1</td>
</tr>
<tr>
<td>California Prop. 65 Ingredients</td>
<td>This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.</td>
</tr>
</tbody>
</table>

Notification status

<table>
<thead>
<tr>
<th>Europe REACH</th>
<th>Not in compliance with the inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switzerland CH INV</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>United States of America US.TSCA</td>
<td>On TSCA Inventory</td>
</tr>
<tr>
<td>Canada DSL</td>
<td>All components of this product are on the Canadian DSL.</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>Japan ISHL</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>
</tbody>
</table>

MSDS Number:100000013972
NFPA Classification : Health Hazard: 3
Fire Hazard: 4
Reactivity Hazard: 0

Further information
Legacy MSDS Number : 646280

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>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>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
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<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
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<td>NOAEL</td>
<td>No Observable Adverse Effect Level</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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<tr>
<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>
</tr>
<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>
</tr>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
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<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research</td>
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<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td></td>
<td>on Cancer</td>
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<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
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<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
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<td>&lt;=</td>
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<td>LC50</td>
<td>Lethal Concentration 50%</td>
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