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

Product information

Trade name: Isopentane (Pure Grade)
Material: 1102393, 1014802, 1016685, 1015405, 1016687, 1016686, 1025147

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: +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

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**

- **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 1
Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system
Aspiration hazard, Category 1
SAFETY DATA SHEET

Isopentane (Pure Grade)

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Revision Date 2014-06-03

Labeling

Symbol(s): 

Signal Word: Danger

Hazard Statements: H224: Extremely flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H336: May cause drowsiness or dizziness.

Precautionary Statements:


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.

MSDS Number: 100000014174

2/14
Isopentane (Pure Grade)

SECTION 3: Composition/information on ingredients

Synonyms: Dimethylethylmethane
2-Methylbutane

Molecular formula: C5H12

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopentane</td>
<td>78-78-4</td>
<td>99 - 100</td>
</tr>
<tr>
<td>n-Pentane</td>
<td>109-66-0</td>
<td>0 - 1</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

General advice: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

If inhaled: Move to fresh air. If symptoms persist, call a physician.

In case of skin contact: If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear. Do NOT induce vomiting. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: < -51 °C (< -60 °F) estimated

Autoignition temperature: 420 °C (788 °F) estimated

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
**Isopentane (Pure Grade)**

Version 1.3

Revision Date 2014-06-03

<table>
<thead>
<tr>
<th><strong>Hazardous decomposition products</strong></th>
<th>Carbon oxides</th>
</tr>
</thead>
</table>

**SECTION 6: Accidental release measures**

<table>
<thead>
<tr>
<th><strong>Personal precautions</strong></th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Environmental precautions</strong></td>
<td>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.</td>
</tr>
<tr>
<td><strong>Methods for cleaning up</strong></td>
<td>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).</td>
</tr>
</tbody>
</table>

**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. 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**

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.
Isopentane (Pure Grade)

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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>Isopentane</td>
<td>ACGIH</td>
<td>TWA</td>
<td>600 ppm.</td>
<td></td>
</tr>
<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 workplace when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal protective equipment

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. 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 in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. 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
- **Physical state**: Liquid
- **Color**: Colorless
- **Odor**: Strong gasoline

#### Safety data
- **Flash point**: < -51 °C (< -60 °F) estimated
- **Lower explosion limit**: 1.3 % (V)
- **Upper explosion limit**: 8 % (V)

#### Oxidizing properties
- **Autoignition temperature**: 420 °C (788 °F) estimated
- **Molecular formula**: C5H12
- **Molecular weight**: 72.17 g/mol
- **pH**: Not applicable
- **Freezing point**: No data available
- **Pour point**: No data available
- **Boiling point/boiling range**: 28 °C (82 °F) estimated
- **Vapor pressure**: 20.10 PSI at 37.8 °C (100.0 °F) estimated
- **Relative density**: 0.62, 15.6 °C (60.1 °F)
- **Density**: 623.1 g/l
- **Water solubility**: Negligible
- **Partition coefficient: n-octanol/water**: No data available
- **Viscosity, dynamic**: 0.224 cP
- **Relative vapor density**: 2.6 (Air = 1.0)
- **Evaporation rate**: > 1
- **Percent volatile**: > 99 %
# SAFETY DATA SHEET

**Isopentane (Pure Grade)**

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## SECTION 10: Stability and reactivity

<table>
<thead>
<tr>
<th>Chemical stability</th>
<th>This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Possibility of hazardous reactions</strong></td>
<td></td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Heat, flames and sparks.</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.</td>
</tr>
<tr>
<td>Other data</td>
<td>No decomposition if stored and applied as directed.</td>
</tr>
</tbody>
</table>

## SECTION 11: Toxicological information

### Isopentane (Pure Grade)

**Acute oral toxicity**  
LD50 Oral: > 2,000 mg/kg  
Species: rat  
Method: Acute toxicity estimate

**Acute inhalation toxicity**  
LC50: > 12.1 mg/l  
Exposure time: 4 h  
Species: rat  
Test atmosphere: dust/mist  
Method: Acute toxicity estimate

**Acute dermal toxicity**  
No data available

**Skin irritation**  
No skin irritation. largely based on animal evidence. Information refers to the main ingredient.

**Eye irritation**  
No eye irritation. largely based on animal evidence. Information refers to the main ingredient.

**Sensitization**  
Contains no substance or substances classified as sensitizing.

**Repeated dose toxicity**  
Species: rat, male and female  
Sex: male and female  
Application Route: Inhalation  
Dose: 668, 2220, 6646 ppm  
Exposure time: 13 wk  
Number of exposures: 6 h/d, 5 d/wk  
NOEL: > 2220 ppm  
Lowest observable effect level: > = 6646 ppm
## Isopentane (Pure Grade)

**Method:** OECD Guideline 413  
**Target Organs:** Kidney

### n-Pentane

<table>
<thead>
<tr>
<th>Species: rat</th>
<th>Application Route: Inhalation</th>
<th>Dose: 0, 3000 ppm</th>
<th>Exposure time: 16 wk</th>
<th>Number of exposures: 12 h/d, 7 d/wk</th>
<th>NOEL: 3,000 ppm</th>
</tr>
</thead>
</table>

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

### Isopentane (Pure Grade) Reproductive toxicity

This information is not available.

### Isopentane (Pure Grade) Developmental Toxicity

This information is not available.

### Isopentane (Pure Grade) Aspiration toxicity

May be fatal if swallowed and enters airways. Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

### CMR effects

**Isopentane**  
- Carcinogenicity: Not available  
- Mutagenicity: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. In vivo tests did not show mutagenic effects  
- Teratogenicity: Animal testing did not show any effects on fetal development.  
- Reproductive toxicity: Animal testing did not show any effects on fertility.

### Isopentane (Pure Grade) Further information

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

### SECTION 12: Ecological information

#### Toxicity to fish

**Isopentane**  
- LC50: 4.26 mg/l  
- Exposure time: 96 h  
- Species: Oncorhynchus mykiss (rainbow trout)  
- semi-static test  
- Method: OECD Test Guideline 203  
- Information given is based on data obtained from similar
Isopentane (Pure Grade)

Toxicity to daphnia and other aquatic invertebrates

Isopentane:
- LC50: 4.3 mg/l
- Exposure time: 96 h
- Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to algae

Isopentane:
- EC50: 2.3 mg/l
- Exposure time: 48 h
- Species: Daphnia magna (Water flea)
- Static test Method: OECD Test Guideline 202

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

Elimination information (persistence and degradability)

Bioaccumulation

Isopentane: Accumulation in aquatic organisms is unlikely.
n-Pentane: Accumulation in aquatic organisms is unlikely.

Biodegradability: This material is expected to be readily biodegradable.

Ecotoxicology Assessment

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

Chronic aquatic toxicity
Isopentane: Toxic to aquatic life with long lasting effects.
n-Pentane: Toxic to aquatic life with long lasting effects.
Isopentane (Pure Grade)

Isopentane : No data available
n-Pentane : No data available

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

Impact on Sewage Treatment
Isopentane : No data available
n-Pentane : No data available

Results of PBT assessment
Isopentane : No data available
n-Pentane : No data available

Results of PBT assessment:
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT), This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

Additional ecological information:
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 MSDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)
UN1265, PENTANES, 3, I

MSDS Number: 100000014174 10/14
IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1265, PENTANES, 3, I, (< -51 °C), MARINE POLLUTANT, (ISOPENTANE, N-PENTANE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN1265, PENTANES, 3, I

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

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

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

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 : Fire Hazard
Acute Health Hazard

CERCLA Reportable Quantity :
Isopentane
101 lbs
Isopentane

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

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 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.
Isopentane (Pure Grade)

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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).

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):

- Isopentane - 78-78-4
- n-Pentane - 109-66-0

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

- Isopentane - 78-78-4
- n-Pentane - 109-66-0

US State Regulations

Pennsylvania Right To Know

- Isopentane - 78-78-4
- n-Pentane - 109-66-0

New Jersey Right To Know

- Isopentane - 78-78-4
- 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: On the inventory, or in compliance with the inventory
United States of America TSCA: On the inventory, or in compliance with the inventory
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

MSDS Number: 100000014174
Isopentane (Pure Grade)

SECTION 16: Other information

NFPA Classification : Health Hazard: 1
                     Fire Hazard: 4
                     Reactivity Hazard: 0

Further information
Legacy SDS Number : 26660

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 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>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>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</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>
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<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
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<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<tr>
<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>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>Acronym</td>
<td>Definition</td>
</tr>
<tr>
<td>---------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<tr>
<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>
</tr>
<tr>
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<td>Less Than or Equal To</td>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
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</tbody>
</table>