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

Product information
Product Name: Propylene (Polymer Grade, Unodorized)
Material: 1103433, 1102933, 1021731, 1015413, 1026827, 1029232

Use: Chemical intermediate

Company: Chevron Phillips Chemical Company LP
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 +32.14.583516 (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

Labeling
Propylene (Polymer Grade, Unodorized)

Version 1.5
Revision Date 2018-09-27

Symbol(s): 

Signal Word: Danger

Hazard Statements: 
H220: Extremely flammable gas.

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

Precautionary Statements: 

Prevention: 
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Response: 
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
P381 Eliminate all ignition sources if safe to do so.

Storage: 
P410 + P403 Protect from sunlight. Store in a well-ventilated place.

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: Propylene

Molecular formula: C3H6

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene</td>
<td>115-07-1</td>
<td>99</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>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.

If inhaled: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.

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 give milk or alcoholic beverages. Never give anything by mouth to an unconscious
SECTION 5: Firefighting measures

Flash point: -108 °C (-162 °F)
Autoignition temperature: 460 °C (860 °F)

Suitable extinguishing media: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.
Unsuitable extinguishing media: High volume water jet.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.
Further information: 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.

Hazardous decomposition products: Carbon oxides.

SECTION 6: Accidental release measures

Personal precautions: 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. NORMS based Radon, a radioactive gas, may be present as a trace component in natural gas, natural gas liquids and petrochemicals derived from natural gas. Special precautions should be taken when entering or dismantling equipment in this

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type of service. Equipment should be checked externally while in service for gamma radiation above background levels. This equipment may contain internal surface deposits of radioactive radon decay products. Minimize unnecessary exposures to these radioactive deposits. Exposures can be reduced by allowing a 4 hour idle (no flow) period before entering or dismantling equipment. During this time the short lived decay products will decay. Longer lived radio nuclides (Pb-210, Bi-210 and Po-210) may be present. Avoid direct skin contact with deposits of radioactivity on surfaces. Avoid generation of dust, smoke or fumes in the work area or if they cannot be avoided, wear a tested and certified respirator for radioactive dusts. Smoking, eating and drinking should be prohibited when working with this equipment. Employees should wash thoroughly with soap and water and discard contaminated clothing after entering or handling equipment having radioactive deposits.

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. 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>Propylene</td>
<td>ACGIH</td>
<td>TWA 500 ppm,</td>
<td>URT irr, asphyxia, A4</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>OSHA Z-1</td>
<td>TWA 1,000 ppm, 1,800 mg/m3</td>
<td>(b)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA 1,000 ppm, 1,800 mg/m3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(b) The value in mg/m3 is approximate.
A4 Not classifiable as a human carcinogen
asphyxia Asphyxia
URT irr Upper Respiratory Tract irritation

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>Propane</td>
<td>74-98-6</td>
<td>Immediately Dangerous to Life or Health Concentration Value 2100 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.

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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:

- 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. Safety glasses.

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: Wash hands before breaks and at the end of workday.

**SECTION 9: Physical and chemical properties**

**Information on basic physical and chemical properties**

**Appearance**
- Form: compressed liquefied gas
- Physical state: Gaseous
- Color: Colorless
- Odor: Sweet

**Safety data**
- Flash point: -108 °C (-162 °F)
- Lower explosion limit: 2.4 % (V)
- Upper explosion limit: 10.1 % (V)
- Oxidizing properties: No
**Autoignition temperature**: 460 °C (860 °F)

**Molecular formula**: C3H6

**Molecular weight**: 42.09 g/mol

**pH**: No data available

**Freezing point**: -185 °C (-301 °F)

**Boiling point/boiling range**: -47.7 °C (-53.9 °F)

**Vapor pressure**: 238.50 PSI at 37.8 °C (100.0 °F)

Method: Reid

**Relative density**: 0.52 at 15.6 °C (60.1 °F)

**Water solubility**: Soluble in hydrocarbon solvents; partially soluble in water.

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

**Viscosity, kinematic**: No data available

**Relative vapor density**: 1.5 (Air = 1.0)

**Evaporation rate**: No data available

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

SECTION 11: Toxicological information

Propylene (Polymer Grade, Unodorized)
Acute oral toxicity: Negligible or unlikely exposure pathways

Acute inhalation toxicity
Propylene: LC50: > 86 mg/l
   Exposure time: 4 h
   Species: Rat
   Test atmosphere: gas
   Test substance: yes

Propylene (Polymer Grade, Unodorized)
Acute dermal toxicity: Negligible or unlikely exposure pathways

Propylene (Polymer Grade, Unodorized)
Skin irritation: No adverse effects expected.

Propylene (Polymer Grade, Unodorized)
Eye irritation: No adverse effects expected.

Propylene (Polymer Grade, Unodorized)
Sensitization: This information is not available.

Repeated dose toxicity
Propylene: Species: Rat, Male and female
   Sex: Male and female
   Application Route: Inhalation
   Dose: 625,1250,2500,5000, 10000 ppm
   Exposure time: 14 wk
   Number of exposures: 6 Hr/d, 5 d/wk
   NOEL: 10000 ppm
Propylene (Polymer Grade, Unodorized)

Species: Mouse, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 625, 1250, 2500, 5000, 10000 ppm
Exposure time: 14 wk
Number of exposures: 6 Hr/d, 5 d/wk
NOEL: 10000 ppm

Species: Rat, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 0, 5000, 10000 ppm
Exposure time: 103 wk
Number of exposures: 6 Hr/d, 5 d/wk
Lowest observable effect level: 5000 ppm
Not classified due to data which are conclusive although insufficient for classification.

Species: Mouse, Male and female
Sex: Male and female
Application Route: Inhalation
Dose: 0, 5000, 10000 ppm
Exposure time: 103 wk
Number of exposures: 6 Hr/d, 5 d/wk
Lowest observable effect level: 5000 ppm
Not classified due to data which are conclusive although insufficient for classification.

Propane
Species: Monkey
Application Route: Inhalation
Dose: 0, 750 ppm
Exposure time: 90 day
Number of exposures: daily
NOEL: > 750 ppm

Genotoxicity in vitro
Propylene
Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Mammalian cell gene mutation assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: Ambiguous

Propane
Test Type: Ames test
Result: negative

Genotoxicity in vivo
Propylene
Test Type: Micronucleus test
Species: Rat
Route of Application: inhalation (gas)
Method: OECD Test Guideline 474
Result: negative
### Carcinogenicity

**Propylene**
- Species: Rat  
  - Dose: 0, 5000, 10000 ppm  
  - Exposure time: 103 wks  
  - Number of exposures: 6 h/d, 5 d/wk  
  - Remarks: No evidence of carcinogenicity

- Species: Mouse  
  - Dose: 0, 5000, 10000 ppm  
  - Exposure time: 103 wks  
  - Number of exposures: 6 h/d, 5 d/wk  
  - Remarks: No evidence of carcinogenicity

### Reproductive toxicity

**Propylene**
- Species: Rat  
  - Sex: male and female  
  - Application Route: Inhalation  
  - Dose: 0, 5000, 10000 ppm  
  - Number of exposures: 6 hrs/d, 5 d/wk  
  - Test period: 103 wks  
  - NOAEL Parent: 10000 ppm

- Species: Mouse  
  - Sex: male and female  
  - Application Route: Inhalation  
  - Dose: 0, 5000, 10000 ppm  
  - Number of exposures: 6 hrs/d, 5 d/wk  
  - Test period: 103 wks  
  - NOAEL Parent: 10000 ppm

**Propane**
- Species: Rat  
  - Sex: male and female  
  - Application Route: Inhalation  
  - Dose: 0, 1200, 4000, 12000 ppm  
  - Exposure time: 6 weeks  
  - Number of exposures: 6 hours/day, 7 days/week  
  - Test period: 6 weeks  
  - Test substance: yes  
  - Method: OECD Guideline 422  
  - NOAEL Parent: 12000 ppm  
  - NOAEL F1: 12000 ppm

### Developmental Toxicity

**Propylene**
- Species: Rat  
  - Application Route: Inhalation  
  - Dose: 0, 200, 1000, 10000 ppm  
  - Number of exposures: 6 hrs/d  
  - Test period: 14 d  
  - Method: OECD Guideline 414  
  - NOAEL Teratogenicity: 10000 ppm  
  - NOAEL Maternal: 10000 pmm

**Propylene (Polymer Grade, Unodorized)**

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

Propylene

Carcinogenicity: Animal testing did not show any carcinogenic effects.
Mutagenicity: Tests on bacterial or mammalian cell cultures 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.

Further information

This product contains NORMS based RADON:
Carcinogenicity: IARC classification / Group 1 carcinogen
Other: The amount of radon in the gas itself is not hazardous, but since radon rapidly decays (t1/2=3.82days) to form other radioactive elements including lead 210, polonium 210, and bismuth 210, equipments may contain radioactivity. The radon decay products are solids and therefore may attach to dust particles or form films in equipment. Inhalation, ingestions, or skin contact with radon decay products can lead to the deposit of radioactive material in the respiratory tract, bone, or blood forming organs, intestinal tract, and kidney, which may lead to certain cancers. Risks can be minimized by following good industrial and personal hygiene practices noted in section 7.

SECTION 12: Ecological information

Ecotoxicity effects

Toxicity to fish

No data available

Biodegradability

This material is volatile and is expected to partition to air.

Elimination information (persistence and degradability)

Bioaccumulation

This material is not expected to bioaccumulate.

Mobility

The product evaporates readily.

Results of PBT assessment

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT)., This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information

Ecotoxicology Assessment

Short-term (acute) aquatic hazard

No data available
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: Do not dispose of waste into sewer. 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)**  
UN1075, PETROLEUM GASES, LIQUEFIED, 2.1  
NON-ODORIZED

**IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)**  
UN1075, PETROLEUM GASES, LIQUEFIED, 2.1, (-108 °C)

**IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)**  
UN1075, 2.1: NOT PERMITTED FOR TRANSPORT

**ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))**  
UN1075, PETROLEUM GASES, LIQUEFIED, 2.1, (B/D)

**RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))**  
UN1075, PETROLEUM GASES, LIQUEFIED, 2.1

**ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)**  
UN1075, PETROLEUM GASES, LIQUEFIED, 2.1
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

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

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

SARA 302 Threshold Planning Quantity: This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 313 Components: The following components are subject to reporting levels established by SARA Title III, Section 313:

- Propylene - 115-07-1

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):

- Propylene - 115-07-1
- Propane - 74-98-6
Propylene (Polymer Grade, Unodorized)

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):

- Propylene - 115-07-1

US State Regulations

Pennsylvania Right To Know
- Propylene - 115-07-1
- Propane - 74-98-6

California Prop. 65 Components
- 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 (USA) TSCA : On TSCA Inventory
Canada DSL : All components of this product are on the Canadian DSL
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 : On the inventory, or in compliance with the inventory
Philippines PICCS : On the inventory, or in compliance with the inventory
China IECSC : On the inventory, or in compliance with the inventory

SECTION 16: Other information

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

Further information

Legacy SDS Number : 5349

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.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
<td>NTP</td>
<td>National Toxicology Program</td>
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<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<tr>
<td>EC50</td>
<td>Effective Concentration</td>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration 50%</td>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
</tr>
<tr>
<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
<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>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
<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>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<tr>
<td>&gt;=</td>
<td>Greater Than or Equal To</td>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
<td>TWA</td>
<td>Time Weighted Average</td>
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<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
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<tr>
<td>KECl</td>
<td>Korea, Existing Chemical Inventory</td>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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<td>&lt;=</td>
<td>Less Than or Equal To</td>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
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