SAFETY DATA SHEET

2-Methyl-2-Butene
Version 2.1
Revision Date 2018-04-09

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

Product information
Product Name: 2-Methyl-2-Butene
Material: 1083996, 1021754, 1021753, 1021755, 1034801, 1030212

Use: Chemical intermediate

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

Local: CHEVRON PHILLIPS CHEMICALS ASIA PTE. LTD.
C/O DONG WOO CORPORATION
#B-2601, JEONGJAIL-RO,
BUNDANG-GU, SEONGNAMI-SI,
GYEONGGI-DO, 13557
SOUTH KOREA
Telephone no.: +612-9186-1132

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
Standards for classification and labeling of chemical substances and material safety data sheet
(ministry of employment and labor public notice No. 2013-37) (GHS 2009)

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Classification:
- Flammable liquids, Category 2
- Acute toxicity, Category 4, Oral
- Skin corrosion/irritation, Category 2
- Germ cell mutagenicity, Category 2
- Carcinogenicity, Category 2
- Specific target organ systemic toxicity - single exposure, Category 3, Central nervous system
- Aspiration hazard, Category 1
- Chronic aquatic toxicity, Category 2

Labeling:

Symbol(s):
- Flammable: ![Flammable Symbol]
- Health Hazard: ![Health Hazard Symbol]
- Environmental Hazard: ![Environmental Hazard Symbol]

Signal Word: Danger

Hazard Statements:
- H225: Highly flammable liquid and vapor.
- H302: Harmful if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H336: May cause drowsiness or dizziness.
- H341: Suspected of causing genetic defects.
- H351: Suspected of causing cancer.
- H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:
- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233: Keep container tightly closed.
- P240: Ground/bond container and receiving equipment.
- P241: Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242: Use only non-sparking tools.
- P243: Take precautionary measures against static discharge.
- P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264: Wash the contact area thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/ eye protection/ face protection.
- P281: Use personal protective equipment as required.

Response:
- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P303 + P361 + P353: IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P308 + P313: IF exposed or concerned: Get medical advice/ attention.
P331: Do NOT induce vomiting.
P332 + P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.
P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P391: Collect spillage.

**Storage:**
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
P403 + P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.

**Disposal:**
P501: Dispose of contents and container (according to the description in the related regulation).

### SECTION 3: Composition/information on ingredients

**Synonyms:**
- 2-MB-2
- beta-Isoamylene
- Isoamylene

**Molecular formula:**
C5H10

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration</th>
<th>KECI Number</th>
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</thead>
<tbody>
<tr>
<td>2-methyl-2-butene</td>
<td>513-35-9</td>
<td>88 % - 95%</td>
<td>KE-23587</td>
</tr>
<tr>
<td>2-methyl-1-butene</td>
<td>563-46-2</td>
<td>5 % - 12%</td>
<td>KE-23586</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:
Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.

In case of skin contact:
If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact:
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:**
-45 °C (-49 °F)

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**Method:** Setaflash Closed Cup

**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 fire fighting:** Do not allow run-off from fire fighting to enter drains or water courses.

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

**Further information:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

**Fire and explosion protection:** Do not spray on an open flame or any other incandescent material. 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.

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**SECTION 6: Accidental release measures**

**Personal precautions:** Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions:** Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods for cleaning up:** Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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**SECTION 7: Handling and storage**

**Handling**

**Advice on safe handling:** Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see

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#### Section 8: Exposure controls/personal protection

**Engineering measures**

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

**Personal protective equipment**

**Respiratory protection**

Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

**Hand protection**

The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe...
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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:. 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
Form : Liquid
Physical state : Liquid
Color : Colorless
Odor : Mild

Safety data
Flash point : -45 °C (-49 °F)
Method: Setaflash Closed Cup
Lower explosion limit : 1.4 %(V)
Oxidizing properties : no
Autoignition temperature : No data available
Molecular formula : C\textsubscript{5}H\textsubscript{10}
Molecular weight : 70.15 g/mol
pH : Not applicable
Pour point : No data available
Boiling point/boiling range : 38.6 °C (101.5 °F)
Vapor pressure : 14.30 PSI
at 37.8 °C (100.0 °F)
Relative density : 0.67
at 15.6 °C (60.1 °F)
Water solubility : Negligible
Partition coefficient: n-octanol/water : No data available
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Viscosity, kinematic : No data available
Relative vapor density : No data available
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.
Hazardous decomposition products : Carbon oxides
Other data : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute oral toxicity
2-methyl-2-butene : LD50: 1,000 - 1,700 mg/kg
Species: Rat

Acute inhalation toxicity
2-methyl-2-butene : LC50: > 175 mg/l
Exposure time: 4 h
Species: Rat

Acute dermal toxicity
2-methyl-2-butene : LD50: > 2,000 mg/kg
Species: Rat

Skin irritation
2-methyl-2-butene : Skin irritation

Eye irritation
2-methyl-2-butene : No eye irritation

Sensitization
<table>
<thead>
<tr>
<th>Substance</th>
<th>Effect</th>
<th>Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-methyl-2-butene</td>
<td>Safety</td>
<td>Did not cause sensitization on laboratory animals.</td>
</tr>
</tbody>
</table>
|                               | Repeated dose toxicity        | Species: Rat, Male and female  
Sex: Male and female  
Application Route: Inhalation  
Dose: 580, 2000, 7000 ppm  
Exposure time: 4 wk  
Number of exposures: 6 h/d, 7 d/wk  
NOEL: 580 ppm  
Method: OECD Guideline 422 |
|                               | Reproductive toxicity        | Species: Rat  
Sex: Male and female  
Application Route: Inhalation  
Dose: 580, 2000, 7000 ppm  
Number of exposures: 6 h/d, 7 d/wk  
Test period: 4 wks  
Method: OECD Guideline 422  
NOAEL Parent: 7000 ppm  
NOAEL F1: 7000 ppm  
no abnormalities observed |
|                               | Developmental Toxicity        | Species: Rat  
Application Route: Inhalation  
Dose: 500, 2000, 8000 ppm  
Exposure time: 6 h/d  
Test period: Days 5 -21  
Method: OECD Guideline 414  
NOAEL Teratogenicity: 8000 ppm  
NOAEL Maternal: 8000 ppm  
Information given is based on data obtained from similar substances.  
Animal testing did not show any effects on fetal development. |
|                               | Aspiration toxicity          | May be fatal if swallowed and enters airways.                         |
|                               | CMR effects                  | Carcinogenicity: Limited evidence of carcinogenicity in animal studies  
Mutagenicity: In vitro tests showed 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          | Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.  
Solvents may degrease the |
 SECTION 12: Ecological information

Toxicity to fish
2-methyl-2-butene : LC₅₀: 4.99 mg/l
Exposure time: 96 h
Species: Oncorhynchus mykiss (rainbow trout)
semi-static test Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates
2-methyl-2-butene : EC₅₀: 3.84 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)
static test Method: OECD Test Guideline 202

Toxicity to algae
2-methyl-2-butene : ErC₅₀: 13.2 mg/l
Exposure time: 72 h
Species: Pseudokirchneriella subcapitata (green algae)
static test Method: OECD Test Guideline 201

Biodegradability
2-methyl-2-butene : aerobic
7 %
Testing period: 28 d
Method: OECD Test Guideline 301D
This material is not expected to be readily biodegradable.

Ecotoxicology Assessment

Acute aquatic toxicity
2-methyl-2-butene : Toxic to aquatic life.

Chronic aquatic toxicity
2-methyl-2-butene : Toxic to aquatic life with long lasting effects.

Results of PBT assessment
2-methyl-2-butene : Non-classified PBT substance, Non-classified vPvB substance

Additional ecological information
2-methyl-2-butene : 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)
UN2460, 2-METHYL-2-BUTENE, 3, II

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN2460, 2-METHYL-2-BUTENE, 3, II, (-45 °C), MARINE POLLUTANT, (2-METHYLIBUTENE-2)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN2460, 2-METHYL-2-BUTENE, 3, II

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN2460, 2-METHYL-2-BUTENE, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS, (2-METHYLIBUTENE-2)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN2460, 2-METHYL-2-BUTENE, 3, II, ENVIRONMENTALLY HAZARDOUS, (2-METHYLIBUTENE-2)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN2460, 2-METHYL-2-BUTENE, 3, II, ENVIRONMENTALLY HAZARDOUS, (2-METHYLIBUTENE-2)
2-Methyl-2-Butene

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

SECTION 15: Regulatory information

National legislation

Regulation under the Occupational Safety and Health Act
A Material Safety Datasheet (MSDS) for this product is not required according to article 41 of the ISHA.

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemical name</th>
<th>Threshold limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmful Substances Prohibited from Manufacturing</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Harmful Substances Required Permission for Manufacture</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

Act on the Registration and Evaluation, etc. of Chemical Substances, Chemicals Control Act

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Chemical name</th>
<th>Threshold limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxic Chemicals</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Prohibited Chemicals</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Restricted Chemicals</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Toxic Release Inventory</td>
<td>Not applicable</td>
<td></td>
</tr>
</tbody>
</table>

Dangerous Substances Safety Management Act

Dangerous Substances: Flammable liquids, Special flammables
Safety Management Act

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) : On TSCA Inventory
TSCA
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

Further information

Legacy SDS Number : 110000

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>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>
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<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</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>
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<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
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<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>
</tr>
<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>RCRRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act.</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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