SAFETY DATA SHEET

DEHA (N,N-Diethylhydroxylamine), 98%
Version 2.0
Revision Date 2015-02-02

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

Product information

Product Name: DEHA (N,N-Diethylhydroxylamine), 98%
Material: 1113508, 1102492, 1103898, 1032840

Use: Oxygen Scavenger, Short stop for free-radical polymerizations

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) China:+86-21-22157316
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: 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.

Emergency Overview

Warning
Form: Liquid  Physical state: Liquid  Color: Colorless to light yellow  Odor: amine
OSHA Hazards: Combustible Liquid, Harmful by skin absorption., Harmful by inhalation.

Classification
Flammable liquids , Category 3
Acute toxicity , Category 4 , Inhalation
Acute toxicity , Category 4 , Dermal

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Specific target organ systemic toxicity - single exposure, Category 3, Respiratory system

Labeling

Symbol(s): ✔️flammable liquid and vapor. ❎![exclamation]

Signal Word: Warning

Hazard Statements:
- H226: Flammable liquid and vapor.
- H312 + H332: Harmful in contact with skin or if inhaled.
- H335: May cause respiratory irritation.

Precautionary Statements:

Prevention:
- 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.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/eye protection/face protection.

Response:
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:
- P403 + P235 Store in a well-ventilated place. Keep cool.

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: Ethanamine, N-Ethyl-N-Hydroxy Amine- (98%)

Molecular formula: \((\text{C}_2\text{H}_5)\text{N-OH}\)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylhydroxylamine</td>
<td>3710-84-7</td>
<td>98</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. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.

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

In case of skin contact: Take victim immediately to hospital. 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. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: 46 °C (115 °F)

Autoignition temperature: No data available

Unsuitable extinguishing media: High volume water jet.

Specific hazards during firefighting: Do not allow run-off from fire fighting to enter drains or water courses.

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

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

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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: Neutralize with acid. 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).

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 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). 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 materials must comply with the technological safety standards.
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>
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<tr>
<td>Diethylhydroxylamine</td>
<td>ACGIH</td>
<td>TWA</td>
<td>2 ppm,</td>
<td>* 2013 Adoption</td>
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</table>

Immediately Dangerous to Life or Health Concentrations (IDLH)

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
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<tr>
<td>Diethyamine</td>
<td>109-89-7</td>
<td>Immediately Dangerous to Life or Health Concentration Value 200 parts per million</td>
<td>1995-03-01</td>
</tr>
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</table>

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 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

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
</tbody>
</table>

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Color: Colorless to light yellow
Odor: amine

Safety data
Flash point: 46 °C (115 °F)
Lower explosion limit: 1.7 %(V)
Upper explosion limit: 11.2 %(V)
Oxidizing properties: no

Autoignition temperature: No data available
Molecular formula: (C2H5)2-N-OH
Molecular weight: 89.15 g/mol
pH: 10.2
Freezing point: -6 °C (21 °F)
Pour point: No data available

Boiling point/boiling range: 125 - 132 °C (257 - 270 °F)
Vapor pressure: 3.36 MMHG
Relative density: 0.87, 20 °C (68 °F)
Density: 0.86 G/ML
Water solubility: Partly soluble

Partition coefficient: n-octanol/water: No data available
Viscosity, kinematic: No data available
Relative vapor density: 1 (Air = 1.0)
Evaporation rate: No data available
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.
**SAFETY DATA SHEET**

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### Possibility of hazardous reactions

**Conditions to avoid**: No data available.  
**Hazardous decomposition products**: Nitrogen oxides (NOx)  
Carbon oxides

**Other data**: No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

**DEHA (N,N-Diethylhydroxylamine), 98%**  
**Acute oral toxicity**:  
LD₅₀: 2,190 mg/kg  
Species: rat

**DEHA (N,N-Diethylhydroxylamine), 98%**  
**Acute inhalation toxicity**:  
LC₅₀: 19 mg/l  
Exposure time: 4 h  
Species: rat

**DEHA (N,N-Diethylhydroxylamine), 98%**  
**Acute dermal toxicity**:  
LD₅₀: 1,300 mg/kg  
Species: rabbit

**DEHA (N,N-Diethylhydroxylamine), 98%**  
**Skin irritation**: May cause skin irritation and/or dermatitis.

**DEHA (N,N-Diethylhydroxylamine), 98%**  
**Eye irritation**: No eye irritation  
Vapors may cause irritation to the eyes, respiratory system and the skin.

**Sensitization**  
Diethylhydroxylamine: Did not cause sensitization on laboratory animals.

**Repeated dose toxicity**  
Diethylhydroxylamine: Species: rat, male and female  
Sex: male and female  
Application Route: Inhalation  
Dose: 15, 150, 1506 ppm  
Exposure time: 28 d  
Number of exposures: 6 h/d, 5d/wk  
NOEL: 150 ppm  
Lowest observable effect level: 1506 ppm  
Method: OECD Guideline 412  
Target Organs: Thymus, Liver

**Reproductive toxicity**  
Diethylhydroxylamine: This information is not available.
**DEHA (N,N-Diethylhydroxylamine), 98%**

**Developmental Toxicity**

Diethylhydroxylamine:
- **Species:** rat
- **Application Route:** oral gavage
- **Dose:** 87.4, 393, 568 mg/kg
- **Number of exposures:** daily
- **Test period:** GD 6-15
- **Method:** OECD Guideline 414
- **NOAEL Teratogenicity:** >= 568 mg/kg
- **NOAEL Maternal:** 87.4 mg/kg
- No adverse effects expected

**DEHA (N,N-Diethylhydroxylamine), 98%**

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

**CMR effects**

Diethylhydroxylamine:
- **Teratogenicity:** Animal testing did not show any effects on fetal development.

**DEHA (N,N-Diethylhydroxylamine), 98%**

**Further information**
- Solvents may degrease the skin.

## SECTION 12: Ecological information

**Toxicity to fish**

Diethylhydroxylamine:
- **LC50:** > 134 mg/l
- **Exposure time:** 96 h
- **Species:** Pimephales promelas (fathead minnow)
- **Method:** OECD Test Guideline 203

**Toxicity to daphnia and other aquatic invertebrates**

Diethylhydroxylamine:
- **EC50:** 8.2 mg/l
- **Exposure time:** 48 h
- **Species:** Daphnia magna (Water flea)
- **Method:** OECD Test Guideline 202

**Toxicity to algae**

Diethylhydroxylamine:
- **ErC50:** > 101 mg/l
- **Exposure time:** 72 h
- **Species:** Pseudokirchneriella subcapitata (green algae)
- **Method:** OECD Test Guideline 201

**Biodegradability**

Diethylhydroxylamine:
- **Result:** Not readily biodegradable.
- **11%**
- **Testing period:** 28 d
- **Method:** OECD Test Guideline 301
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### Ecotoxicology Assessment

**Acute aquatic toxicity**
- **Diethylhydroxylamine**: Toxic to aquatic life.

**Chronic aquatic toxicity**
- **Diethylhydroxylamine**: Toxic to aquatic life with long lasting effects.

**Toxicity Data on Soil**
- No data available

**Other organisms relevant to the environment**
- No data available

**Impact on Sewage Treatment**
- No data available

**Results of PBT assessment**
- **Diethylhydroxylamine**: Non-classified PBT substance, Non-classified vPvB substance

**Additional ecological information**
- An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful 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)**
- UN1993, FLAMMABLE LIQUIDS, N.O.S., (DIETHYLHYDROXYLAMINE), 3, III

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IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1993, FLAMMABLE LIQUID, N.O.S., (DIETHYLHYDROXYLAMINE), 3, III, (46 °C), MARINE POLLUTANT, (DIETHYLHYDROXYLAMINE)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN1993, FLAMMABLE LIQUID, N.O.S., (DIETHYLHYDROXYLAMINE), 3, III

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN1993, FLAMMABLE LIQUID, N.O.S., (DIETHYLHYDROXYLAMINE), 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS, (DIETHYLHYDROXYLAMINE)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN1993, FLAMMABLE LIQUID, N.O.S., (DIETHYLHYDROXYLAMINE), 3, III, ENVIRONMENTALLY HAZARDOUS, (DIETHYLHYDROXYLAMINE)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN1993, FLAMMABLE LIQUID, N.O.S., (DIETHYLHYDROXYLAMINE), 3, III, ENVIRONMENTALLY HAZARDOUS, (DIETHYLHYDROXYLAMINE)

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

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

CERCLA Reportable Quantity : 50000 lbs
Diethylamine

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 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 112 (40 CFR 61).

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
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: 2
                      Fire Hazard: 2
                      Reactivity Hazard: 0

Further information

Legacy SDS Number : CPC00067
Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this SDS pertains only to the product as shipped.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</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>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>EC50</td>
<td>Effective Concentration</td>
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<td>No Observable Adverse Effect Level</td>
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<td>Occupational Safety &amp; Health Administration</td>
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<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<td>GHS</td>
<td>Globally Harmonized System</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<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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<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>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
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<td>TWA</td>
<td>Time Weighted Average</td>
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<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
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<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
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<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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