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

1.1

Product information

Product Name: Diethyl Sulfide
Material: 1017947, 1024545, 1024826

EC-No. Registration number

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EC-No. Index No.</th>
<th>Legal Entity Registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethyl Sulfide</td>
<td>352-93-2 206-526-9</td>
<td>Chevron Phillips Chemicals International NV 01-2119971585-25-0000</td>
</tr>
</tbody>
</table>

1.2

Relevant identified uses of the substance or mixture and uses advised against

Relevant Identified Uses Supported: Intermediate: The substance is registered as a Transported Isolated Intermediate with Strictly Controlled Conditions (SCC) defined in Article 18(4) of Regulation EC No. 1907/2006 and must therefore be handled as such.

1.3

Details of the supplier of the safety data sheet

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

Local: Chevron Phillips Chemicals International N.V.
Airport Plaza (Stockholm Building)
Leonardo Da Vinciiaan 19
1831 Diegem
Belgium

SDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email:sds@cpchem.com
SAFETY DATA SHEET

Diethyl Sulfide

Version 2.1

1.4 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

2.1 Classification of the substance or mixture
REGULATION (EC) No 1272/2008

Flammable liquids, Category 2
Eye irritation, Category 2
Long-term (chronic) aquatic hazard, Category 3

H225: Highly flammable liquid and vapor.
H319: Causes serious eye irritation.
H412: Harmful to aquatic life with long lasting effects.

2.2 Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal Word : Danger

Hazard Statements :
H225 Highly flammable liquid and vapor.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements :
Prevention:
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
SECTION 3: Composition/information on ingredients

3.1 - 3.2 Substance or Mixture

Synonyms:
- Diethyl sulfide
- 1,1'-Thiobisethane
- DES
- 3-thiapentane
- Diethyl thioether
- Ethylthioethane

Molecular formula: C4H10S

Hazardous ingredients

<table>
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<tr>
<th>Chemical name</th>
<th>CAS-No. EC-No. Index No.</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration [wt%]</th>
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<tbody>
<tr>
<td>Diethyl Sulfide</td>
<td>352-93-2 206-526-9</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 Aquatic Chronic 3; H412</td>
<td>97 - 100</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of 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: If unconscious, place in recovery position and seek medical advice. 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: Immediately flush eye(s) with plenty of water. 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

<table>
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<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Flash point</td>
<td>-10 - -4 °C (14 - 25 °F) at 100.4 kPa</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>189 - 199 °C (372 - 390 °F)</td>
</tr>
</tbody>
</table>
Diethyl Sulfide

5.1 Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam. Carbon dioxide (CO2). Dry chemical.

Unsuitable extinguishing media: High volume water jet.

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

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. Sulfur oxides.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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.

6.2 Environmental precautions

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.

6.3 Methods and materials for containment and cleaning up

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 regulations.
6.4 Reference to other sections

Reference to other sections: For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling

Advice on safe handling: Avoid formation of aerosol. Do not breathe vapors/dust. 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

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

8.2 Exposure controls

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.

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.

In case of an accident during maintenance/cleaning, this substance must be handled under Strictly Controlled Conditions (SCC) in accordance with REACH regulation Article 18(4) for transported isolated intermediates.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance
Form: Liquid
Physical state: Liquid
Color: Clear
Odor: Pungent, garlic-like

Safety data
Flash point: -10 - -4 °C (14 - 25 °F) at 100,4 kPa

Lower explosion limit: No data available
Upper explosion limit: No data available
Oxidizing properties: No

Autoignition temperature: 189 - 199 °C (372 - 390 °F)
### Diethyl Sulfide

**Version 2.1**

#### Revision Date

2018-11-14

<table>
<thead>
<tr>
<th><strong>Property</strong></th>
<th><strong>Value</strong></th>
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<tr>
<td><strong>Molecular formula</strong></td>
<td>C4H10S</td>
</tr>
<tr>
<td><strong>Molecular weight</strong></td>
<td>90.2 g/mol</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available</td>
</tr>
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<td><strong>Pour point</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Melting point/range</strong></td>
<td>-103.9 °C (-155.0 °F) at 103.25 hPa</td>
</tr>
<tr>
<td><strong>Boiling point/boiling range</strong></td>
<td>92.1 °C (197.8 °F)</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>10.00 kPa at 30.3 °C (86.5 °F)</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>0.84 g/cm³ at 20 °C (68 °F)</td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
<td>3.07 g/l at 25 °C (77 °F)</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>log Pow: 1.95</td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td>Negligible</td>
</tr>
<tr>
<td><strong>Viscosity, dynamic</strong></td>
<td>0.422 mPa.s at 20 °C (68 °F)</td>
</tr>
<tr>
<td><strong>Relative vapor density</strong></td>
<td>3.1 (Air = 1.0)</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Percent volatile</strong></td>
<td>&gt; 99 %</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

#### 10.1

**Reactivity**: Stable under recommended storage conditions.

#### 10.2

**Chemical stability**: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Diethyl Sulfide

Possibility of 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.

10.4 Conditions to avoid: Heat, flames and sparks.

Thermal decomposition: No data available

10.6 Hazardous decomposition products: Carbon oxides
Sulfur oxides

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity
Diethyl Sulfide: LD50: > 5,000 mg/kg
Species: Rat
Sex: male and female
Method: OECD Test Guideline 401
Information given is based on data obtained from similar substances.

Acute inhalation toxicity
Diethyl Sulfide: LC50: 102 mg/l
Exposure time: 4 h
Species: Rat
Sex: male and female
Test atmosphere: vapor
Method: OECD Test Guideline 403
Information given is based on data obtained from similar substances.

Acute dermal toxicity
Diethyl Sulfide: LD50: > 2,000 mg/kg
Sex: male and female
Method: OECD Test Guideline 402
Information given is based on data obtained from similar substances.
**Diethyl Sulfide**

**Skin irritation**
Diethyl Sulfide: Mild skin irritation
Information given is based on data obtained from similar substances.

**Eye irritation**
Diethyl Sulfide: Eye irritation
Information given is based on data obtained from similar substances.

**Sensitization**
Diethyl Sulfide: Does not cause skin sensitization.
Information given is based on data obtained from similar substances.

**Repeated dose toxicity**
Diethyl Sulfide:
Species: Rat, male and female
Sex: male and female
Application Route: oral gavage
Dose: 0, 2.5, 25, 250 mg/kg/bw/d
Exposure time: 14 wk
Number of exposures: 7 d/wk
Method: OCED Guideline 408
No adverse effects expected
Information given is based on data obtained from similar substances.

**Genotoxicity in vitro**
Diethyl Sulfide:
Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Method: OECD Guideline 473
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Test Type: Mouse lymphoma assay
Metabolic activation: with and without metabolic activation
Method: OECD Guideline 476
Result: negative
Remarks: Information given is based on data obtained from similar substances.
Genotoxicity in vivo

Diethyl Sulfide

- **Test Type:** In vivo micronucleus test
- **Species:** Mouse
- **Cell type:** Bone marrow
- **Route of Application:** Oral
- **Method:** OECD Test Guideline 474
- **Result:** negative
- **Remarks:** Information given is based on data obtained from similar substances.

Developmental Toxicity

Diethyl Sulfide

- **Species:** Rat
- **Application Route:** oral gavage
- **Dose:** 100, 500, 1000 mg/kg/d
- **Exposure time:** GD 6 - 19
- **Number of exposures:** Daily
- **Test period:** 20 d
- **Method:** OECD Guideline 414
- **NOAEL Teratogenicity:** 1.000 mg/kg
- **NOAEL Maternal:** 1.000 mg/kg
- **No adverse effects expected**
- **Information given is based on data obtained from similar substances.**

**Diethyl Sulfide Aspiration toxicity**

- **May be harmful if swallowed and enters airways.**

CMR effects

Diethyl Sulfide

- **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:** Not available

**Diethyl Sulfide Further information**

- **Solvents may degrease the skin.**

SECTION 12: Ecological information

12.1

Toxicity

Toxicity to fish

Diethyl Sulfide

- **LC50:** > 49.8 mg/l
- **Exposure time:** 96 h
- **Species:** Danio rerio (Zebra Fish)
- **semi-static test Method:** OECD Test Guideline 203
- **Information given is based on data obtained from similar substances.**
**Diethyl Sulfide**

**Toxicity to daphnia and other aquatic invertebrates**

Diethyl Sulfide  
EC50: 16 mg/l  
Exposure time: 48 h  
Species: *Daphnia magna* (Water flea)  
*static test*  
Information given is based on data obtained from similar substances.

**Toxicity to algae**

Diethyl Sulfide  
EC50: > 59.3 mg/l  
Exposure time: 72 h  
Species: *Pseudokirchneriella subcapitata* (green algae)  
Method: OECD Test Guideline 201  
*OECD static test*  
Information given is based on data obtained from similar substances.

**M-Factor**

Diethyl Sulfide  
M-Factor (Acute Aquat. Tox.) 1  
M-Factor (Chron. Aquat. Tox.) 1

**Toxicity to bacteria**

Diethyl Sulfide  
EC50: > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
Respiration inhibition

**12.2 Persistence and degradability**

**Biodegradability**

Diethyl Sulfide  
*aerobic*  
Result: Not readily biodegradable.  
41 %  
Testing period: 28 d  
Method: OECD Test Guideline 301D  
Information given is based on data obtained from similar substances.

**12.3 Bioaccumulative potential**

**Bioaccumulation**

Diethyl Sulfide  
This material is not expected to bioaccumulate.

**12.4 Mobility in soil**

**Mobility**

Diethyl Sulfide  
No data available
12.5 Results of PBT and vPvB assessment
Results of PBT assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Additional ecological information:
Ecotoxicology Assessment

Short-term (acute) aquatic hazard
Diethyl Sulfide: Harmful to aquatic life.

Long-term (chronic) aquatic hazard
Diethyl Sulfide: Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
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

14.1 - 14.7 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.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation


15.2 Major Accident Hazard Legislation

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Hazard Code</th>
<th>Update</th>
<th>Quantity 1</th>
<th>Quantity 2</th>
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</thead>
<tbody>
<tr>
<td>Highly flammable</td>
<td>7b</td>
<td>2003</td>
<td>5.000 t</td>
<td>50.000 t</td>
</tr>
<tr>
<td>FLAMMABLE LIQUIDS</td>
<td>P5c</td>
<td></td>
<td>5.000 t</td>
<td>50.000 t</td>
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</table>

Notification status

Europe REACH: On the inventory, or in compliance with the inventory
Notification number: 01-2119971585-25-000
Diethyl Sulfide

SECTION 16: Other information

NFPA Classification :
- Health Hazard: 2
- Fire Hazard: 3
- Reactivity Hazard: 0

Further information
Legacy SDS Number : 46750

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 |
|-----------------------------|-----------------------------|-----------------|-----------------------------|
| ACGIH                       | American Conference of     | LD50            | Lethal Dose 50%             |
|                             | Government Industrial Hygienists |                 |                              |
| AICS                        | Australia, Inventory of     | LOAEL           | Lowest Observed Adverse      |
|                             | Chemical Substances         |                 | Effect Level                 |
| DSL                         | Canada, Domestic Substances | NFPA            | National Fire Protection     |
|                             | List                        |                 | Agency                       |
| NDSL                        | Canada, Non-Domestic       | NIOSH           | National Institute for       |
|                             | Substances List             |                 | Occupational Safety &       |
|                             |                             |                 | Health                      |
| CNS                         | Central Nervous System      | NTP             | National Toxicology Program  |
| CAS                         | Chemical Abstract Service   | NZIoC           | New Zealand Inventory of     |
|                             |                             |                 | Chemicals                   |
| EC50                        | Effective Concentration     | NOAEL           | No Observable Adverse        |
|                             |                             |                 | Effect Level                 |
| EC50                        | Effective Concentration 50% | NOEC            | No Observed Effect           |
|                             |                             |                 | Concentration                |
| EGEST                       | EOSCA Generic Exposure     | OSHA            | Occupational Safety & Health |
|                             | Scenario Tool               |                 | Administration               |
| EOSCA                      | European Oilfield Specialty | PEL             | Permissible Exposure Limit   |
|                             | Chemicals Association       |                 |                              |
| EINECS                     | European Inventory of       | PICCS           | Philippines Inventory of     |
|                             | Existing Chemical Substances|                 | Commercial Chemical         |
| MAK                         | Germany Maximum Concentration| PRNT           | Substances                  |

SDS Number:100000014109
## Diethyl Sulfide

**SAFETY DATA SHEET**

**Version 2.1**

**Revision Date** 2018-11-14

<table>
<thead>
<tr>
<th>Values</th>
<th>GHS</th>
<th>Globally Harmonized System</th>
<th>RCRA</th>
<th>Resource Conservation Recovery Act</th>
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<tbody>
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<td>&gt;=</td>
<td>&gt;</td>
<td>Greater Than or Equal To</td>
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<td>Short-term Exposure Limit</td>
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<td>IEC</td>
<td>International Agency for Research on Cancer</td>
<td>SARA</td>
<td>Supersolid Amendments and Reauthorization Act.</td>
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<td>Time Weighted Average</td>
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<td>IECSC</td>
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<td>Lethal Concentration 50%</td>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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</tbody>
</table>

### Full text of H-Statements referred to under sections 2 and 3.

- **H225** Highly flammable liquid and vapor.
- **H319** Causes serious eye irritation.
- **H412** Harmful to aquatic life with long lasting effects.