SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

GHS Product Identifier
Product Name: Preval

Other means of Identification
Synonyms: none

Recommended use of the chemical and restrictions on use
Recommended Use: No information available
Uses advised against: No information available

Supplier's Details
Supplier Address
Chicago Aerosol
1300 North St.
Coal City, IL 60416
Tel: 815-634-5100

Emergency telephone number
Emergency Telephone Number 1-866-634-5100
Chemtrec 1-800-424-9300

2. HAZARD IDENTIFICATION

Classification

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific Target Organ Systemic toxicity (Single Exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Simple Asphyxiant</td>
<td>Yes</td>
</tr>
<tr>
<td>Flammable Aerosols</td>
<td>Category 1</td>
</tr>
<tr>
<td>Gases Under Pressure</td>
<td></td>
</tr>
</tbody>
</table>

GHS label elements, including precautionary statements

EMERGENCY OVERVIEW

Signal Word  Danger
Hazard Statements
- Causes serious eye irritation
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Extremely flammable aerosol
Appearance | Clear | Physical State | Aerosol | Odor | Odor Fragranced
---|---|---|---|---|---

**Precautionary Statements**

**Prevention**
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- Wash face, hands and any exposed skin thoroughly after handling.
- Wear eye/face protection.
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Keep away from heat/sparks/open flames/hot surfaces - No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do no pierce or burn, even after use.

**General Advice**
- If exposed or concerned: Get medical attention/advice

**Eyes**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.

**Inhalation**
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Storage**
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight. Do no expose to temperatures exceeding 50°C/122°F

**Disposal**
- Dispose of contents/container to an approved waste disposal plant.

**Hazard Not Otherwise Classifed (HNOC)**
Rapid evaporation of the liquid may cause frostbite.

**Other Information**
May be harmful if inhaled. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Ether</td>
<td>115-10-6</td>
<td>&lt; 55</td>
<td>*</td>
</tr>
<tr>
<td>Isobutane</td>
<td>75-28-5</td>
<td>&lt; 30</td>
<td>*</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>&lt; 30</td>
<td>*</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if irritation persists.

Skin Contact  
Wash off with warm water and soap. In case of contact with liquefied gas, thaw frosted parts with lukewarm water. Get medical attention if symptoms occur.

Inhalation  
IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately if irritation persists.

Ingestion  
Not an expected route of exposure

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects  

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician  
Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Carbon dioxide (CO2). Dry chemical. Alcohol-resistant foam. Water fog.

Unsuitable Extinguishing Media  
No information available.

Specific Hazards Arising from the Chemical
No information available.

Hazardous Combustion Products  
Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides. Nitrogen oxides (NOx).

Explosion Data
Sensitivity to Mechanical Impact  
Yes
Sensitivity to Static Discharge  
Yes

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions  
Contents under pressure. Remove all sources of ignition. Do not puncture or incinerate cans. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material

Environmental Precautions

Environmental Precautions  
See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

*The exact percentage (concentration) of composition has been withheld as a trade secret.
Methods for Containment: Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up: Pick up and transfer to properly labeled containers. Cover liquid spill with sand, earth or other noncombustible absorbent material. Clean contaminated surface thoroughly.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling**
Contents under pressure. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing.

**Conditions for safe storage, including any incompatibilities**

**Storage**
Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals.

**Incompatible Products**
Strong oxidizing agents.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Ether 115-10-6</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
<td>TWA: 1000 ppm</td>
</tr>
</tbody>
</table>

**Appropriate engineering controls**

**Engineering Measures**
Showers
Eyewash stations
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**
No protective equipment is needed under normal use conditions. Risk of contact, wear: Safety glasses with side-shields.

**Skin and Body Protection**
No protective equipment is needed under normal use conditions. Lightweight protective clothing. 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.

**Respiratory Protection**
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

**Hygiene Measures**
Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Aerosol</th>
<th>Appearance</th>
<th>Clear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>ether</td>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions.

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
Strong oxidizing agents

Hazardous decomposition products
Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
### Inhalation
May cause irritation of respiratory tract. May cause drowsiness and dizziness. Intentional misuse by deliberately concentrating and inhaling contents may be

### Eye Contact
Contact with eyes may cause serious eye irritation based on the components present within the product.

### Skin Contact
Contact with product may cause frostbite.

### Ingestion
May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Ether</td>
<td>-</td>
<td>-</td>
<td>=308.5 mg/L</td>
</tr>
<tr>
<td>Isobutane</td>
<td></td>
<td>658 mg/L</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td>658 mg/L</td>
<td></td>
</tr>
</tbody>
</table>

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms**
Eye contact with liquid may cause irritation including stinging, burning, tearing, or reddening of the eyes. Avoid skin contact with leaking liquid (danger of frostbite).

**Delayed and immediate effects and also chronic effects from short and long term exposure**

- **Sensitization**
  No information available.
- **Mutagenic Effects**
  No information available.
- **Carcinogenicity**
  No information available.

**Chemical Name** | **ACGIH** | **IARC** | **NTP** | **OSHA**
--- | --- | --- | --- | ---

**Reproductive Toxicity**
No information available.

**STOT - single exposure**
May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure**
No information available.

**Aspiration Hazard**
No information available.

**Numerical measures of toxicity - Product**

The following values are calculated based on chapter 3.1 of the GHS document:

- **LD50 Oral**
- **LD50 Dermal**
- **Inhalation**
12. ECOLOGICAL INFORMATION

Ecotoxicity
The environmental impact of this product has not been fully investigated.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Toxicity to Algae</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Microorganisms</th>
<th>Daphnia Magna (Water Flea)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl Ether</td>
<td>-0.18</td>
</tr>
<tr>
<td>Isobutane</td>
<td>2.89</td>
</tr>
<tr>
<td>Propane</td>
<td>2.3</td>
</tr>
</tbody>
</table>

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
Dispose of in accordance with federal, state, and local regulations.

Contaminated Packaging
Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT
Proper shipping name: Consumer commodity
Hazard Class: ORM-D
Description: Consumer commodity, ORM-D
Emergency Response Guide Number: 126

TDG
UN-Number: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Description: UN1950, Aerosols, 2.1

MEX
UN-Number: UN1950
Proper Shipping Name: Aerosols
Hazard Class: 2.1
Description: UN1950, Aerosols, 2.1

ICAO
### 15. REGULATORY INFORMATION

#### International Inventories

| TSCA | All components of this product are either listed or are exempt on the TSCA inventory. |
| DSL | Substances comply or are exempt |

#### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

#### U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
</table>

#### SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Sudden Release of Pressure</td>
<td>Yes</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

#### Clean Water Act

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
</table>

#### CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>Extremely Hazardous Substances RQs</th>
<th>RQ</th>
</tr>
</thead>
</table>
### U.S. State Regulations

**California Proposition 65**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>Illinois</th>
<th>Rhode Island</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
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</tbody>
</table>

### U.S. EPA Label Information

**EPA Pesticide Registration Number**  
Not applicable

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazard 2</th>
<th>Flammability 4</th>
<th>Instability 0</th>
<th>Physical and Chemical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health Hazard 2*</td>
<td>Flammability 4</td>
<td>Physical Hazard 0</td>
<td>Personal Protection X</td>
</tr>
</tbody>
</table>

*Indicates a chronic health hazard.*

**Prepared By**  
Chicago Aerosol  
1300 North St  
Coal City, IL 60416  
1-800-572-6501

**Issuing Date**  
20-Oct-14

**Revision Date**  
20-Oct-14

**Revision Note**  
Initial Release.

**General Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of Safety Data Sheet**