1. Product and Company Identification

Product number: 789-002
Product name: Precision Contact Cleaner
Effective date: 22-Feb-2012
Company information: Sprayway, Inc.
1005 Westgate Drive
Addison, IL 60101 United States
Company phone: 1-630-543-7600  630-628-3000
Emergency telephone US: 1-866-836-8855
Emergency telephone outside US: 703-527-3887
Version #: 01
Product use: Solvent cleaner

2. Hazards Identification

Emergency overview: EXTREMELY FLAMMABLE
Aerosol. Will be easily ignited by heat, spark or flames. CONTENTS UNDER PRESSURE.
Harmful in contact with eyes. Prolonged exposure may cause chronic effects.

Potential health effects:

Routes of exposure: Eye contact. Skin contact. Ingestion.
Eyes: Contact with eyes may cause irritation.
Skin: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
Inhalation: Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
Ingestion: Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.

Target organs: Central nervous system. Lungs.
Chronic effects: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. May cause delayed lung injury.


3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic Petroleum Solvent</td>
<td>64742-89-8</td>
<td>60 - 70</td>
</tr>
<tr>
<td>1,1-Difluoroethane</td>
<td>75-37-6</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>8 - 10</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures:

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Skin contact: Wash off with warm water and soap. Get medical attention if irritation develops and persists.

Inhalation: If symptoms develop move victim to fresh air. Call a physician if symptoms develop or persist.

Ingestion: Do not induce vomiting without advice from poison control center. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician immediately.
Notes to physician
Symptoms may be delayed.

5. Fire Fighting Measures
Flammable properties
Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media

Protection of firefighters
In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Cool containers with flooding quantities of water until well after fire is out.

6. Accidental Release Measures
Methods for containment
Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk.
Methods for cleaning up
Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. After removal flush contaminated area thoroughly with water.

7. Handling and Storage
Handling
Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with eyes. Avoid prolonged exposure.

Storage

8. Exposure Controls / Personal Protection
Exposure limits
ACGIH
Components | CAS # | TWA | STEL | Ceiling
---|---|---|---|---
Isopropyl Alcohol | 67-63-0 | 200 ppm | 400 ppm | Not established

OSHA
Components | CAS # | TWA | STEL | Ceiling
---|---|---|---|---
Isopropyl Alcohol | 67-63-0 | 400 ppm | Not established | Not established

Personal protective equipment
Eye / face protection
Chemical goggles are recommended. Do not get in eyes.
Skin protection
Wear appropriate chemical resistant clothing. Chemical resistant gloves.
Respiratory protection
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties
Appearance
Compressed liquefied gas.
Boiling point
168.8 °F (76.1 °C) estimated
Color
Clear. Colorless.
Density
0.7604 g/cm3 estimated
Flammability (HOC)
31.383 kJ/g estimated
Flash back: Yes
Flash point: -52 °F (-46.7 °C)
Form: Aerosol.
Freezing point: Not available
Odor: Solvent.
pH: Not applicable
Physical state: Liquid.
Pressure: 44 - 54 psig @ 70F
Solubility: Not Determined
Specific gravity: 0.7605 estimated

### 10. Chemical Stability & Reactivity Information

- **Chemical stability**: Risk of ignition.
- **Conditions to avoid**: Heat, flames and sparks.
- **Hazardous decomposition products**: No hazardous decomposition products are known.

### 11. Toxicological Information

#### Acute effects
Acute LD50: 4405 mg/kg estimated, Rat, Dermal

#### Component analysis - LD50

<table>
<thead>
<tr>
<th>Toxicology Data - Selected LD50s and LC50s</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1-Difluoroethane</td>
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</tbody>
</table>

#### Sensitization
Not expected to be hazardous by OSHA criteria.

#### Teratogenicity
Not expected to be hazardous by OSHA criteria.

### 12. Ecological Information

#### Ecotoxicity
Components of this product have been identified as having potential environmental concerns.

- LC50 12.04 mg/L, Fish, 96.00 Hours,
- EC50 829 mg/L, Daphnia, 48.00 Hours,
- IC50 4340 mg/L, Algae, 72.00 Hours,

### 13. Disposal Considerations

#### Waste codes
D001: Waste Flammable material with a flash point <140 F

#### Disposal instructions
Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001.

### 14. Transport Information

#### Department of Transportation (DOT) Requirements

- **Basic shipping requirements:**
  - **Proper shipping name**: Aerosols
  - **Hazard class**: 2.1
  - **UN number**: UN1950
  - **Additional information:**
    - **Special provisions**: 153, N82
    - **Packaging exceptions**: LTD QTY
    - **Packaging non bulk**: None
    - **Packaging bulk**: None

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Product name: Precision Contact Cleaner
Product #: 789-002 Revision date: 22-FEB-2012 Print date: 22-FEB-2012
Further information

Until 12/31/2013, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/13 and may be used now in place of the "Consumer Commodity ORM-D" marking but not concurrently.

IMDG

Basic shipping requirements:
- Proper shipping name: AEROSOLS
- Hazard class: 2.1
- UN number: 1950

Additional information:
- Packaging exceptions: LTD QTY
- Item: 5F
- Labels required: None
- Transport Category: 2

IATA

Basic shipping requirements:
- Proper shipping name: Aerosols, flammable
- Hazard class: 2.1
- UN number: 1950

Additional information:
- Packaging exceptions: LTD QTY
- Labels required: 2.1

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SARA Hazardous Substances - Not applicable.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Isopropyl Alcohol 67-63-0 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical  Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance  No

Section 311 hazardous chemical  Yes

Hazard categories (311/312)
- Immediate Hazard - Yes
- Delayed Hazard - No
- Fire Hazard - Yes
- Pressure Hazard - Yes
- Reactivity Hazard - No

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of New and Existing Chemicals (EINECS)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
16. Other Information

<table>
<thead>
<tr>
<th>Further information</th>
<th>HMIS® is a registered trade and service mark of the NPCA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS® ratings</td>
<td>Health: 1</td>
</tr>
<tr>
<td></td>
<td>Flammability: 4</td>
</tr>
<tr>
<td></td>
<td>Physical hazard: 0</td>
</tr>
</tbody>
</table>

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| Prepared by         | Regulatory Compliance                                    |