



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 090-001
Product name Industrial RD-90
Effective date 07-May-2010
Company information Sprayway, Inc.
484 Vista Ave.
Addison, IL 60101 United States
Company phone General Assistance 630-543-7600
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Version # 01

2. Hazards Identification

Emergency overview FLAMMABLE
Aerosol. CONTENTS UNDER PRESSURE. Will be easily ignited by heat, spark or flames. May be harmful if absorbed through skin. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Skin contact. Ingestion. Inhalation. Eye contact.

Eyes Contact with eyes may cause irritation.

Skin Contact with skin may cause irritation. This product may be harmful if it is absorbed through the skin.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

Target organs 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been observed in humans.
Blood. Central nervous system.

Chronic effects Unconsciousness. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

Signs and symptoms Narcosis. Cyanosis.

3. Composition / Information on Ingredients

| Components | CAS # | Percent |
|--|------------|---------|
| Synthetic Isoparaffinic Hydrocarbon | 64742-47-8 | 20 - 30 |
| Mineral Spirits (64742-47-8 / 8052-41-3) | Mixture | 20 - 30 |
| Propane | 74-98-6 | 8 - 10 |
| 2-Butoxyethanol | 111-76-2 | 8 - 10 |
| Non-hazardous and other components below reportable levels | | 20 - 40 |

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 Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. Get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.

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| Inhalation | Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled 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 or Poison Control Center immediately. |
| Ingestion | If material is ingested, immediately contact a poison control center. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. 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. |

5. Fire Fighting Measures

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| 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 | |
| Suitable extinguishing media | Water. Water spray. Water fog. Alcohol foam. Dry chemical. Carbon dioxide (CO2). |
| Protection of firefighters | |
| Specific hazards arising from the chemical | Fire may produce irritating, corrosive and/or toxic gases. |
| Protective equipment and precautions for firefighters | In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Containers should be cooled with water to prevent vapor pressure build up. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Cool containers with flooding quantities of water until well after fire is out. |

6. Accidental Release Measures

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| Methods for containment | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewers, basements or confined areas. |
| 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 contaminated surface thoroughly. After removal flush contaminated area thoroughly with water. |

7. Handling and Storage

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| Handling | Pressurized container: Do not pierce or burn, even after use. Do not handle or store near an open flame, heat or other sources of ignition. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not get this material in contact with skin. Avoid prolonged exposure. |
| Storage | Level 3 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep in an area equipped with sprinklers. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit. |

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

| Components | CAS # | TWA | STEL | Ceiling |
|--|----------|----------|-----------------|-----------------|
| Mineral Spirits (64742-47-8 / Mixture 8052-41-3) | | 100 ppm | Not established | Not established |
| Propane | 74-98-6 | 1000 ppm | Not established | Not established |
| 2-Butoxyethanol | 111-76-2 | 20 ppm | Not established | Not established |

OSHA

| Components | CAS # | TWA | STEL | Ceiling |
|--|----------|----------|-----------------|-----------------|
| Mineral Spirits (64742-47-8 / Mixture 8052-41-3) | | 500 ppm | Not established | Not established |
| Propane | 74-98-6 | 1000 ppm | Not established | Not established |
| 2-Butoxyethanol | 111-76-2 | 50 ppm | Not established | Not established |

Personal protective equipment

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| Eye / face protection | Wear chemical goggles. |
| Skin protection | Wear appropriate chemical resistant clothing. Protective gloves. Wear chemical protective equipment that is specifically recommended by the manufacturer. |
| Respiratory protection | Wear positive pressure self-contained breathing apparatus (SCBA). If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. |

9. Physical & Chemical Properties

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|---------------------------------------|--------------------------------|
| Appearance | Compressed liquefied gas. |
| Boiling point | 278.6 °F (137.2 °C) estimated |
| Color | Amber. |
| Flammability (Flame Extension) | 30 in |
| Flammability (HOC) | 37.9966 kJ/g estimated |
| Flash back | Yes |
| Flash point | -156 °F (-104.4 °C) Propellant |
| Form | Aerosol. |
| Odor | Slight. |
| pH | Not Applicable |
| Physical state | Liquid. |
| Pressure | 38 - 48 psig @ 70F |
| Solubility | Partially |
| Specific gravity | 0.777 estimated |

10. Chemical Stability & Reactivity Information

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

11. Toxicological Information

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|----------------------|---|
| Acute effects | Acute LD50: 1531 mg/kg estimated, Rat, Dermal Acute LC50: 6 mg/l/4h estimated, Rat, Inhalation |
|----------------------|---|

Component analysis - LD50**Toxicology Data - Selected LD50s and LC50s**

| | | |
|-------------------------------------|------------|---|
| 2-Butoxyethanol | 111-76-2 | Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat 470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg |
| Propane | 74-98-6 | Inhalation LC50 Rat 658 mg/L 4 h |
| Synthetic Isoparaffinic Hydrocarbon | 64742-47-8 | Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg |

12. Ecological Information

| | |
|--------------------|---|
| Ecotoxicity | Components of this product have been identified as having potential environmental concerns. LC50 104 mg/L, Fish, 96.00 Hours, EC50 7019 mg/L, Daphnia, 48.00 Hours, |
|--------------------|---|

13. Disposal Considerations

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|--------------------|--|
| Waste codes | D001: Waste Flammable material with a flash point <140 F |
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Disposal instructions

Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements**Basic shipping requirements:**

Proper shipping name Consumer commodity

Hazard class ORM-D

Subsidiary hazard class None

Additional information:

Packaging exceptions 156, 306

Packaging non bulk 156, 306

Packaging bulk None

IMDG**Basic shipping requirements:**

Proper shipping name Aerosols

Hazard class 2.1

UN number 1950

Additional information:

Packaging exceptions LTD QTY

Labels required NONE

**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

2-Butoxyethanol

111-76-2

1.0 % de minimis concentration (applies to R-(OCH₂CH₂)_n-OR', where n = 1,2, or 3, R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate, Chemical Category N230)

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

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| China | Inventory of Existing Chemical Substances in China (IECSC) | No |
| Europe | European Inventory of New and Existing Chemicals (EINECS) | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | No |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

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

State regulations

U.S. - Pennsylvania - RTK (Right to Know) List

| | | |
|-------------------------------------|------------|---------|
| 2-Butoxyethanol | 111-76-2 | Present |
| Propane | 74-98-6 | Present |
| Synthetic Isoparaffinic Hydrocarbon | 64742-47-8 | Present |

16. Other Information

Further information

HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings

Health: 1
Flammability: 4
Physical hazard: 0

Disclaimer

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.

Prepared by

Regulatory Compliance