MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number	829
Product name	**Spot Lifter**
Effective date	15-May-2008
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
Supersedes date	15-May-2008

2. Hazards Identification

Emergency overview

CONTENTS UNDER PRESSURE.
Aerosol. Pressurized container may explode when exposed to heat or flame.

Cancer hazard. Irritating to eyes. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure	Inhalation. Skin contact. Ingestion.
Eyes	Causes eye irritation.
Skin	Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Irritating to respiratory system. 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

Kidney. Central nervous system. Liver. Lungs.

Chronic effects

Liver injury may occur. Kidney injury may occur. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.

Signs and symptoms

Discomfort in the chest. Narcosis. Liver enlargement. Jaundice. Defatting of the skin. Irritation.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Methylene Chloride	75-09-2	40 - 50
Propane	74-98-6	20 - 30
Perchloroethylene	127-18-4	15 - 20
Propylene Oxide	75-56-9	0.1 - 0.5
Non-hazardous and other components below reportable levels		2.5 - 10

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 if irritation develops or persists.
Skin contact	Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops or persists. For minor skin contact, avoid spreading material on unaffected skin.

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. If symptoms persist, get medical attention.
Ingestion	If material is ingested, immediately contact a poison control center. Rinse mouth. 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

Flammable properties	Containers may explode when heated. 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. Dry chemical. Carbon dioxide (CO_2).
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

Personal precautions	Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
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

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. Use only in area provided with appropriate exhaust ventilation. Do not reuse the empty container. Do not use if spray button is missing or defective. Do not get this material in contact with eyes. Do not get this material in contact with skin. Wear personal protective equipment. Avoid release to the environment. Avoid prolonged exposure.
Storage	Level 1 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. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. Keep out of the reach of children. Use care in handling/storage. Level 1 Aerosol (NFPA 30B) 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
Methylene Chloride	75-09-2	50 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Perchloroethylene	127-18-4	25 ppm	100 ppm	Not established
Propylene Oxide	75-56-9	2 ppm	Not established	Not established

OSHA

Components	CAS #	TWA	STEL	Ceiling
Methylene Chloride	75-09-2	25 ppm	125 ppm	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
Perchloroethylene	127-18-4	100 ppm	Not established	200 ppm
Propylene Oxide	75-56-9	100 ppm	Not established	Not established

Engineering controls Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Personal protective equipment

Eye / face protection Wear chemical goggles.

Skin protection Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

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

Appearance Compressed liquefied gas.
Boiling point 71.6 °F (22.2 °C) estimated
Color Off-white.
Flammability (HOC) 12.0743 kJ/g estimated
Flash back No
Flash point -156 °F (-104.4 °C) estimated
Form Aerosol.
Odor Characteristic.
pH Not applicable
Physical state Liquid.
Pressure 77 - 87 psig @ 70F
Solubility Negligible
Specific gravity 0.98 estimated

10. Chemical Stability & Reactivity Information

Conditions to avoid Heat, flames and sparks.
Hazardous decomposition products Hydrogen chloride. Irritants. Toxic gas. May include oxides of sulphur.

11. Toxicological Information

Acute effects Acute LC50: 3033 mg/l/4h estimated, Rat, Inhalation
Sensitization Not expected to be hazardous by OSHA criteria.
Local effects Liver toxicity. Irritating to eyes. Irritating to respiratory system. Components of the product may be absorbed into the body through the skin.
Chronic effects Hazardous by OSHA criteria. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
Carcinogenicity Hazardous by OSHA criteria.
Reproductive effects 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 are hazardous to aquatic life.

LC50 22.06 mg/L estimated, Fish, 96.00 Hours,
EC50 32.73 mg/L estimated, Daphnia, 48.00 Hours,

Environmental effects Harmful to aquatic life.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F
D039: Waste Tetrachloroethylene

Disposal instructions Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. 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
Subsidiary hazard class	6.1
UN number	1950
Marine pollutant	Tetrachloroethylene
Additional information:	
Packaging exceptions	NOT a LTD QTY
Item	5TF
Labels required	2.1 +6.1
Transport Category	1

IATA

Basic shipping requirements:

Proper shipping name	Aerosols, flammable, containing substances in Division 6.1, Packing Group III
Hazard class	2.1
Subsidiary hazard class	6.1
UN number	1950
Additional information:	
Packaging exceptions	LTD QTY

15. Regulatory Information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

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

Methylene Chloride	75-09-2	0.1 % de minimis concentration
Perchloroethylene	127-18-4	0.1 % de minimis concentration
Propylene Oxide	75-56-9	0.1 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Methylene Chloride: 1000.0000
Perchloroethylene: 100.0000
Propylene Oxide: 100.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

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

WARNING: This product contains a chemical known to the State of California to cause cancer.

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

Methylene Chloride	75-09-2	Environmental hazard; Special hazardous substance
Perchloroethylene	127-18-4	Environmental hazard; Special hazardous substance
Propane	74-98-6	Present
Propylene Oxide	75-56-9	Environmental hazard; Special hazardous substance

16. Other Information

Further information

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

HMIS® ratings

Health: 2*
Flammability: 2
Physical hazard: 0

Prepared by

Regulatory Compliance

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