

MATERIAL SAFETY DATA SHEET



Product number Pull Out 2

1. Product and Company Identification

Product name Pull Out 2 Spot Remover
Effective date 11-Oct-2022
Company information Sprayway Singapore Pte Ltd
Company phone 65-6744 3075
Recommended Uses Spot Remover

2. Hazards Identification

Emergency overview CONTENTS UNDER PRESSURE. Aerosol.
Cancer hazard. Irritating to eyes. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

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
Aliphatic Petroleum Solvent	64742-89-8	20 - 30
Dimethyl ether	115-10-6	20 - 30
Trichloroethylene	79-01-6	20 - 30
Liquefied petroleum gas	64746-85-7	2.5 - 10
Silica	7631-86-9	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

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 (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

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 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 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. 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**

Aliphatic Petroleum Solvent

64742-89-8

50 ppm

Not established

Not established

Propane

74-98-6

1000 ppm

Not established

Not established

Trichloroethylene

79-01-6

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

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	77 °F (25 °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: 1409 mg/l/4h estimated, Rat, Inhalation

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

Methylene Chloride	75-09-2	Oral LD50 Rat >2000 mg/kg; Inhalation LC50 Rat 76000 mg/m ³ 4 h
Perchloroethylene	127-18-4	Inhalation LC50 Rat 4000 ppm 4 h; Oral LD50 Rat 2629 mg/kg; Dermal LD50 Mouse 2800 mg/kg
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h
Propylene Oxide	75-56-9	Oral LD50 Rat 520 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Carcinogenicity Hazardous by OSHA criteria.

IARC - Group 2A (Probably Carcinogenic to Humans)

Perchloroethylene 127-18-4 Monograph 63 [1995]; Supplement 7 [1987]

IARC - Group 2B (Possibly Carcinogenic to Humans)

Methylene Chloride 75-09-2 Monograph 71 [1999]; Supplement 7 [1987]

Propylene Oxide 75-56-9 Monograph 60 [1994]; Supplement 7 [1987]

Teratogenicity Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity Components of this product are hazardous to aquatic life.
LC50 23.22 mg/L estimated, Fish, 96.00 Hours,
EC50 35.02 mg/L estimated, Daphnia, 48.00 Hours,

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. 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
Marine pollutant Tetrachloroethylene

Additional information:

Packaging exceptions NOT a LTD QTY
Item 5TF
Labels required 2.1

Transport Category 1



IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable, Packing Group III

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.

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

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Product #: Pull Out 2

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4 / 5

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantityMethylene 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® ratingsHealth: 2*
Flammability: 2
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. 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.

MSDS sections updated

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 Composition / Information on Ingredients: Ingredients
 Hazards Identification: Emergency overview
 Fire Fighting Measures: Unusual fire & explosion hazards
 Handling and Storage: Storage
 Physical & Chemical Properties: Physical & Chemical Properties
 Transport Information: Product Shipping Name/Packing Group

Prepared by

Regulatory Compliance