MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number	880-001
Product name	**Gel Vandal Mark Remover**
Effective date	20-Nov-2012
Company information	Sprayway, Inc. 1005 Westgate Drive Addison, IL 60101 United States
Company phone	General Assistance 630-628-3000
Emergency telephone US	1-866-836-8855
Emergency telephone outside US	1-952-852-4646
Version #	05
Supersedes date	24-Nov-2009
Expiry Date	20-Nov-2015
Product use	Vandalism remover

2. Hazards Identification

Emergency overview

Flammable aerosol. VAPOR HARMFUL.
Yields a flame projection at full valve opening or a flashback at any degree of valve opening. Heat may cause the containers to explode. CONTENTS UNDER PRESSURE. Corrosive. Causes skin and eye burns.

Potential health effects

Routes of exposure	Eye contact. Skin contact. Ingestion.
Eyes	Causes chemical burns. Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes chemical burns. May be harmful if absorbed through skin.
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. May cause irritation of respiratory tract.
Ingestion	Exposure by ingestion of an aerosol is unlikely. Harmful if swallowed. Ingestion causes burns of the upper digestive and respiratory tracts. 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. Lungs. Skin.
Chronic effects	May be harmful if absorbed through skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Toluene	108-88-3	15 - 40
Propane	74-98-6	7 - 13
n-Butane	106-97-8	7 - 13
Acetone	67-64-1	5 - 10
2-Butoxyethanol	111-76-2	3 - 7
Diethylene Glycol Monobutyl Ether	112-34-5	1 - 5
9-Octadecenoic Acid	112-80-1	1 - 5
Bentone EW Rheological Additive	12173-47-6	0 - 0.1
Non-hazardous and other components below reportable levels		15 - 40

4. First Aid Measures

First aid procedures

Eye contact	If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Call a physician or Poison Control Center immediately.
Skin contact	Call a physician or Poison Control Center immediately. For minor skin contact, avoid spreading material on unaffected skin.
Inhalation	If symptoms develop move victim to fresh air. Call a physician or Poison Control Center immediately.
Ingestion	Never give anything by mouth to a victim who is unconscious or is having convulsions. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

5. Fire Fighting Measures

Flammable properties Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.

Extinguishing media

Suitable extinguishing media Water fog. Foam. Dry chemical. Carbon dioxide (CO2).

Protection of firefighters

Protective equipment and precautions for firefighters Containers should be cooled with water to prevent vapor pressure build up. Some of these materials, if spilled, may evaporate leaving a flammable residue. Do not direct water at source of leak or safety devices as icing may occur. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Unusual fire & explosion hazards Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.

6. Accidental Release Measures

Methods for containment Stop leak if you can do so without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). If possible, turn leaking containers so that gas escapes rather than liquid. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Prevent entry into waterways, sewer, basements or confined areas.

Methods for cleaning up Clean up in accordance with all applicable regulations. Should not be released into the environment. Ventilate the area. 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.

7. Handling and Storage

Handling Pressurized container: Do not pierce or burn, even after use. When using do not smoke. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not use if spray button is missing or defective. Do not re-use empty containers. Do not get this material in contact with skin. Do not breathe mist or vapor. Do not get this material on clothing. Avoid breathing mist or vapor.

Storage Keep locked up. Contents under pressure. Do not puncture, incinerate or crush. Keep away from heat and sources of ignition. Avoid exposure to long periods of sunlight. Keep at temperature not exceeding 49 °C. Store in a well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 2 Aerosol.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling
Toluene	108-88-3	20 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Acetone	67-64-1	500 ppm	750 ppm	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Bentone EW Rheological Additive	12173-47-6	0.025 mg/m3	Not established	Not established

Personal protective equipment

Eye / face protection Do not get in eyes. Chemical goggles are recommended.

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

Respiratory protection Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. 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 186.8 °F (86.1 °C) estimated

Color Tan.

Evaporation rate Not available

Flammability (HOC) 20.727 kJ/g estimated

Flammability limits in air, lower, % by volume Not available

Flammability limits in air, upper, % by volume Not available

Flash back Yes

Flash point -156 °F (-104.4 °C) Propellant

Form Compressed gas. Aerosol.

Freezing point Not available

Odor Solvent.

Odor threshold Not available

pH 12.42 - 13.42

Physical state Liquid.

Pressure 60 - 75 psig @ 70F

Solubility (H2O) Not miscible.

Specific gravity 0.8229 estimated

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Heat, flames and sparks. Aerosol containers are unstable at temperatures above 49°C.

Hazardous decomposition products Irritants. Toxic gas.

11. Toxicological Information

Acute effects Acute LD50: 3926 mg/kg estimated, Rat, Dermal
Causes burns.

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
9-Octadecenoic Acid	112-80-1	Oral LD50 Rat 25 g/kg
Acetone	67-64-1	Oral LD50 Rat 5800 mg/kg
Bentone EW Rheological Additive	12173-47-6	Oral LD50 Rat >5000 mg/kg
Diethylene Glycol Monobutyl Ether	112-34-5	Oral LD50 Rat 3384 mg/kg; Dermal LD50 Rabbit 2700 mg/kg
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h
Toluene	108-88-3	Inhalation LC50 Rat 12.5 mg/L 4 h; Inhalation LC50 Rat >26700 ppm 1 h; Oral LD50 Rat 636 mg/kg; Dermal LD50 Rabbit 8390 mg/kg; Dermal LD50 Rat 12124 mg/kg

Sensitization Not expected to be hazardous by WHMIS criteria.

Carcinogenicity Not expected to be hazardous by WHMIS criteria.

ACGIH - Threshold Limit Values - Carcinogens

2-Butoxyethanol	111-76-2	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
Acetone	67-64-1	A4 - Not Classifiable as a Human Carcinogen
Toluene	108-88-3	A4 - Not Classifiable as a Human Carcinogen

Mutagenicity Not expected to be hazardous by WHMIS criteria.

Teratogenicity Hazardous by WHMIS criteria.

Chronic toxicity May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

12. Ecological Information

Ecotoxicity

LC50 91.39 mg/L, Fish, 96.00 Hours,
EC50 28.73 mg/L, Daphnia, 48.00 Hours,
IC50 1614 mg/L, Algae, 72.00 Hours,
Components of this product are hazardous to aquatic life.

13. Disposal Considerations

Disposal instructions

Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container to hazardous or special waste collection point. 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

Canadian Transportation of Dangerous Goods (TDG) Requirements

Proper shipping name AEROSOLS, flammable, containing substances in Class 8, packing group III

Hazard class 2.1

UN number UN1950

Marine pollutant •

Special provisions 80 SOR/2002-306

Packaging exceptions If <1L: Consumer Commodity

15. Regulatory Information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Canada - WHMIS - Ingredient Disclosure List

2-Butoxyethanol	111-76-2	1 %
9-Octadecenoic Acid	112-80-1	1 %
Acetone	67-64-1	1 %
Diethylene Glycol Monobutyl Ether	112-34-5	1 %
n-Butane	106-97-8	1 %
Toluene	108-88-3	1 %

WHMIS status Controlled

WHMIS classification

A - Compressed Gas
B5 - Flammable/Combustible
E - Corrosive

WHMIS labeling

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	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)

16. Other Information

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 in the sheet was written based on the best knowledge and experience currently available.

MSDS sections updated

This document has undergone significant changes and should be reviewed in its entirety.

Prepared by

Regulatory Compliance