



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 870
Product name Vandalism Mark & Stain Remover
Effective date 06-Jun-2008
Company information Claire Manufacturing
500 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 # 03
Supersedes date 13-Nov-2007

2. Hazards Identification

Emergency overview VAPOR HARMFUL.
FLAMMABLE
CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when exposed to heat or flame.
Harmful in contact with eyes. Cancer hazard. Irritating to skin. Irritating to respiratory system. Prolonged exposure may cause chronic effects.

Potential health effects

Routes of exposure Ingestion. Inhalation. Skin contact.

Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury.

Skin Irritating to 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. Harmful if swallowed. May cause delayed lung damage.

Target organs Kidney. Central nervous system. Liver. Lungs. Respiratory system.

Chronic effects Conjunctiva. 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.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Methylene Chloride	75-09-2	40 - 50
n-Butane	106-97-8	20 - 30
Toluene	108-88-3	10 - 15
Perchloroethylene	127-18-4	8 - 10
Propane	74-98-6	8 - 10
Propylene Oxide	75-56-9	0.1 - 0.5
Non-hazardous and other components below reportable levels		1 - 2.5

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. Get medical attention immediately.

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. Call a physician if symptoms develop or persist.

Ingestion

Rinse mouth. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without medical advice. 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.

Extinguishing media**Suitable extinguishing media**

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.

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.

Methods for cleaning up

Should not be released into the environment.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

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. Do not use if spray button is missing or defective. Use only with adequate ventilation. 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. Avoid exposure to long periods of sunlight. Keep in an area equipped with sprinklers. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure limits**ACGIH****Components****CAS #****TWA****STEL****Ceiling**

Methylene Chloride

75-09-2

50 ppm

Not established

Not established

n-Butane

106-97-8

1000 ppm

Not established

Not established

Toluene

108-88-3

50 ppm

Not established

Not established

Perchloroethylene

127-18-4

25 ppm

100 ppm

Not established

Propane

74-98-6

1000 ppm

Not established

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
Toluene	108-88-3	200 ppm	Not established	300 ppm
Perchloroethylene	127-18-4	100 ppm	Not established	200 ppm
Propane	74-98-6	1000 ppm	Not established	Not established
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 clothing. Protective gloves.

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

9. Physical & Chemical Properties

Appearance	Not available
Boiling point	102.2 °F (38.9 °C) estimated
Color	Pale yellow
Flammability (HOC)	18.61 kJ/g estimated
Flash back	Yes
Flash point	-156 °F (-104.4 °C) estimated
Form	Aerosol.
Odor	Solvent.
pH	Not applicable
Physical state	Liquid.
Pressure	25 - 35 psig @ 70F
Solubility	Negligible
Specific gravity	0.8934 estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition. Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Hazardous decomposition products	Hydrogen chloride. Irritants. Toxic gas. May include oxides of oxides of carbon.

11. Toxicological Information

Acute effects	Acute LC50: 85 mg/l/4h estimated, Rat, Inhalation Acute LD50: 55930 mg/kg estimated, Rat, Dermal
Sensitization	Not expected to be hazardous by OSHA criteria.
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	LC50 32.61 mg/L estimated, Fish, 96.00 Hours, EC50 36.97 mg/L estimated, Daphnia, 48.00 Hours, IC50 2641 mg/L estimated, Algae, 72.00 Hours,
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13. Disposal Considerations

Waste codes	D001: Waste Flammable material with a flash point <140 F D018: Waste Benzene D039: Waste Tetrachloroethylene
Disposal instructions	Contents under pressure. Dispose of this material and its container at 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

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 LTQ QTY
Labels required	2.1, 6.1



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.

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
Toluene	108-88-3	1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Methylene Chloride: 1000.0000
Toluene: 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)	Yes
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 and birth defects or other reproductive harm.

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

Methylene Chloride	75-09-2	Environmental hazard; Special hazardous substance
n-Butane	106-97-8	Present
Perchloroethylene	127-18-4	Environmental hazard; Special hazardous substance
Propane	74-98-6	Present
Propylene Oxide	75-56-9	Environmental hazard; Special hazardous substance
Toluene	108-88-3	Environmental hazard

16. Other Information**HMIS® ratings**

Health: 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

Hazards Identification: Emergency overview
Handling and Storage: Storage
Physical & Chemical Properties: Fire Fighting Measures
Transport Information: Product Shipping Name/Packing Group