



# 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 (CO<sub>2</sub>).

**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**

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

**10. Chemical Stability & Reactivity Information**

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

**11. Toxicological Information**

|                             |                                                                                                     |
|-----------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Acute effects</b>        | Acute LC50: 85 mg/l/4h estimated, Rat, Inhalation<br>Acute LD50: 55930 mg/kg estimated, Rat, Dermal |
| <b>Sensitization</b>        | Not expected to be hazardous by OSHA criteria.                                                      |
| <b>Carcinogenicity</b>      | Hazardous by OSHA criteria.                                                                         |
| <b>Reproductive effects</b> | Not expected to be hazardous by OSHA criteria.                                                      |
| <b>Teratogenicity</b>       | Not expected to be hazardous by OSHA criteria.                                                      |

**12. Ecological Information**

|                    |                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b> | LC50 32.61 mg/L estimated, Fish, 96.00 Hours,<br>EC50 36.97 mg/L estimated, Daphnia, 48.00 Hours,<br>IC50 2641 mg/L estimated, Algae, 72.00 Hours, |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|

**13. Disposal Considerations**

|                              |                                                                                                                                                                                                                                                                                                                   |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste codes</b>           | D001: Waste Flammable material with a flash point <140 F<br>D018: Waste Benzene<br>D039: Waste Tetrachloroethylene                                                                                                                                                                                                |
| <b>Disposal instructions</b> | 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