# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

| | |
|---|---|
| **Product number** | 870-001 |
| **Product name** | **Vandalism Mark & Stain Remover** |
| **Effective date** | 13-Sep-2011 |
| **Company information** | Claire Mfg.<br>1005 Westgate<br>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 #** | 06 |
| **Supersedes date** | 02-Aug-2011 |

## 2. Hazards Identification

**Emergency overview**

Aerosol. FLAMMABLE
CONTENTS UNDER PRESSURE.
VAPOR HARMFUL.
Harmful in contact with eyes. Irritating to skin. Irritating to respiratory system. Possible cancer hazard - may cause cancer based on animal data.

**Potential health effects**

| | |
|---|---|
| **Routes of exposure** | Skin contact. Eye contact. Inhalation. Ingestion. |
| **Eyes** | Contact may irritate or burn eyes. |
| **Skin** | Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Irritating to skin. |
| **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** | Central nervous system. Lungs. |
| **Chronic effects** | 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 injury. |
| **Signs and symptoms** | Discomfort in the chest. Narcosis. Coughing. Jaundice. Conjunctivitis. Defatting of the skin. Skin irritation. |

## 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. Continue rinsing. Get medical attention if irritation develops and persists. |

**Skin contact** Remove and isolate contaminated clothing and shoes. Wash off with warm water and soap. Get medical attention if irritation develops and persists.

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention if symptoms persist.

**Ingestion** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions.

## 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** 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 case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

## 6. Accidental Release Measures

**Methods for containment** 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.

**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 surface thoroughly to remove residual contamination.

## 7. Handling and Storage

**Handling** Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin.

**Storage** Contents under pressure. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. 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. Level 1 Aerosol (NFPA 30B)

## 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 | 20 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 |

**Exposure guidelines** Refer to the OSHA Standard 29 CFR 1910.1052 regarding requirements for employers to control occupational exposure to methylene chloride.

**Personal protective equipment**

**Eye / face protection** Wear chemical goggles.

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

**Respiratory protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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** 102.2 °F (38.9 °C) estimated

**Color** Pale yellow

**Density** 0.8933 g/cm3 estimated

**Flammability (HOC)** 18.61 kJ/g estimated

**Flash back** Yes

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

**Form** Aerosol.

**Freezing point** Not available

**Odor** Solvent.

**pH** Not applicable

**Physical state** Liquid.

**Pressure** 40 - 55 psig @ 70F

**Solubility** Negligible

**Specific gravity** 0.8934 estimated

## 10. Chemical Stability & Reactivity Information

**Chemical stability** Risk of ignition. Material is stable under normal conditions.

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

**Hazardous decomposition products** Hydrogen chloride. Irritants. Toxic gas.

## 11. Toxicological Information

**Acute effects** Acute LC50: 82 mg/l/4h estimated, Rat, Inhalation
Acute LD50: 55930 mg/kg estimated, Rat, Dermal

**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/m3 4 h |
| n-Butane | 106-97-8 | Inhalation LC50 Rat 658 mg/L 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 |
| 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 OSHA criteria.

**Carcinogenicity** Hazardous by OSHA criteria. Risk of cancer cannot be excluded with prolonged exposure.

**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** LC50 32.2 mg/L, Fish, 96.00 Hours,
EC50 30.14 mg/L, Daphnia, 48.00 Hours,
IC50 633 mg/L, Algae, 72.00 Hours,
Not established. Components of this product are hazardous 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 to 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.

## 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 |
| **Labels required** | 2.1, 6.1 |

## 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 |
| 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)**

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Hazard categories (311/312)**
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

**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 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

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

**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 in the sheet was written based on the best knowledge and experience currently available. 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** | Product and Company Identification: Product Review<br>Hazards Identification: Emergency overview<br>Hazards Identification: Eyes<br>Hazards Identification: Inhalation<br>Hazards Identification: Target organs<br>Hazards Identification: Chronic effects<br>Hazards Identification: Main symptoms |
| **Prepared by** | Regulatory Compliance |