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. 1005 Westgate 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 Hazards Identification: Emergency overview Hazards Identification: Eyes Hazards Identification: Inhalation Hazards Identification: Target organs Hazards Identification: Chronic effects Hazards Identification: Main symptoms
Prepared by	Regulatory Compliance