



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 870
Product name Netcare Vandalism Mark Remover
Effective date 21-Oct-2010
Company information Network Services Company
1100 East Woodfield Rd, Suite 200
Schaumburg, IL 60173 United States
Company phone General Assistance 630-543-7600
Emergency telephone US 800-424-9300
Emergency telephone outside US 703-527-3887
Version # 04
Supersedes date 06-Jun-2008

2. Hazards Identification

Emergency overview EXTREMELY FLAMMABLE LIQUID AND VAPOR. FLAMMABLE CONTENTS UNDER PRESSURE. Aerosol. Will be easily ignited by heat, spark or flames. 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. Prolonged skin contact may defat the skin and produce dermatitis.

Signs and symptoms Discomfort in the chest. Corneal damage. Narcosis. Liver enlargement. Jaundice. Conjunctivitis. Defatting of the 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. 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	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	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 smoke while using or until sprayed surface is thoroughly dry. 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	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

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

11. Toxicological Information

Acute effects	Acute LC50: 82 mg/l/4h estimated, Rat, Inhalation Acute LD50: 55930 mg/kg estimated, Rat, Dermal
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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.
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Carcinogenicity	Hazardous by OSHA criteria.
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IARC - Group 2A (Probably Carcinogenic to Humans)

Perchloroethylene	127-18-4	Monograph 63 [1995]; Supplement 7 [1987]
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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]

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,

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 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
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 Trademark Statement

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

Product and Company Identification: Product Review
Physical & Chemical Properties: Physical & Chemical Properties
Physical & Chemical Properties: Appearance
Transport Information: Product Shipping Name/Packing Group

Prepared by

Regulatory Compliance