

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 880

Product name Gel Vandal Mark Remover

Effective date 12-Mar-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 # 1.0

Supersedes date 03-Jul-2007

2. Hazards Identification

Emergency overview FLAMMABLE

VAPOR HARMFUL.

CONTENTS UNDER PRESSURE.

Aerosol. Pressurized container may explode when exposed to heat or flame.

Irritating to skin. Irritating to eyes. Irritating to respiratory system. Prolonged exposure

may cause chronic effects.

OSHA regulatory status This product is considered hazardous under 29 CFR 1910.1200 (Hazard

Communication).

Potential health effects

Routes of exposure Skin contact. Ingestion. Inhalation.

Eyes Causes eye irritation.

Skin This product may be harmful if it is absorbed through the 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.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged and may cause blood damage. These effects have not been

observed in humans.

Blood. Central nervous system. Liver. Respiratory system.

Chronic effects

Unconsciousness. 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

damade.

Signs and symptoms Discomfort in the chest. Narcosis. Cyanosis. Liver enlargement. Jaundice. Defatting of the

skin. Irritation.

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3. Composition / Information on Ingredients				
Components	CAS#	Percent		
Toluene	108-88-3	20 - 30		
Propane	74-98-6	10 - 15		
n-Butane	106-97-8	8 - 10		
Acetone	67-64-1	5 - 8		
2-Butoxyethanol	111-76-2	3 - 5		
Diethylene Glycol Monobutyl Ether	112-34-5	3 - 5		
Non-hazardous and other components below reportable levels		20 - 40		

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 if irritation develops or persists.

Remove and isolate contaminated clothing and shoes. Wash off with warm water and Skin contact

soap. Get medical attention if irritation develops or persists.

Move to fresh air. If breathing is difficult, give oxygen. Call a physician if symptoms Inhalation

develop or persist.

Ingestion If swallowed, seek medical advice immediately and show this container or label. 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.

Symptoms may be delayed. Notes to physician

General advice Call a physician if symptoms develop or persist.

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 Water fog. Foam. Dry chemical. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

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.

Specific hazards Fire may produce irritating, corrosive and/or toxic gases.

6. Accidental Release Measures

Personal precautions Ensure adequate ventilation. Do not touch damaged containers or spilled material unless

wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep

unnecessary personnel away.

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 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. Do not breathe gas/fumes/vapor/spray.

Wear personal protective equipment. Avoid prolonged exposure.

Storage Level 2 Aerosol.

Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep in an area equipped with sprinklers. Keep out of the reach of children. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS#	TWA	STEL	Ceiling
Toluene	108-88-3	50 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Acetone	67-64-1	500 ppm	750 ppm	Not established
2-Butoxyethanol	111-76-2	20 ppm	Not established	Not established
Diethylene Glycol Monobutyl	112-34-5	20 ppm	Not established	Not established

Ether

OSHA

Components	CAS#	TWA	STEL	Ceiling
Toluene	108-88-3	200 ppm	Not established	300 ppm
Propane	74-98-6	1000 ppm	Not established	Not established
Acetone	67-64-1	1000 ppm	Not established	Not established
2-Butoxyethanol	111-76-2	50 ppm	Not established	Not established
Diethylene Glycol Monobu Ether	tyl 112-34-5	100 ppm	Not established	Not established

Engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye / face protection Wear chemical goggles.

Skin protection Wear appropriate chemical resistant clothing. Protective gloves.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

General hygeine considerations

When using do not smoke. Avoid contact with eyes. Avoid contact with skin. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and

safety practice.

9. Physical & Chemical Properties

Appearance Compressed liquefied gas.

ColorTan.OdorSolvent.Physical stateLiquid.FormAerosol.

Flammability (HOC) 20.2031 kJ/g estimated

Flash back No

Pressure 47 - 57 psig @ 70F

Solubility Partially

Flash point -156 °F (-104.4 °C) estimated Boiling point 165.2 °F (73.9 °C) estimated

Specific gravity 0.812 estimated

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pH 12.4 - 13.4

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition.

Conditions to avoid Heat, flames and sparks.

Hazardous decomposition products May include oxides of oxides of carbon.

11. Toxicological Information

Acute effects Acute LD50: 4002 mg/kg estimated, Rat, Dermal

Acute LC50: 23 mg/l/4h estimated, Rat, Inhalation

Sensitization Not expected to be hazardous by OSHA criteria.

Local effectsLiver toxicity. Blood disorder may occur after ingestion. Irritating to eyes. Irritating to skin.

Irritating to respiratory system. Components of the product may be absorbed into the

body through the skin.

Chronic effectsHazardous by OSHA criteria. This product may be harmful if it is absorbed through the

skin. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure

may cause chronic effects.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Subchronic effects Kidney injury may occur. Blood disorder may occur after prolonged inhalation. Blood

disorder may occur after prolonged skin contact.

Neurological effects Hazardous by OSHA criteria.

MutagenicityNot expected to be hazardous by OSHA criteria.Reproductive effectsNot expected to be hazardous by OSHA criteria.TeratogenicityNot expected to be hazardous by OSHA criteria.

Epidemiology Hazardous by OSHA criteria. **Further information** Symptoms may be delayed.

12. Ecological Information

Ecotoxicity LC50 91.38 mg/L estimated, Fish, 96.00 Hours,

EC50 40.7 mg/L estimated, Daphnia, 48.00 Hours, IC50 11599 mg/L estimated, Algae, 72.00 Hours,

Components of this product have been identified as having potential environmental

concerns.

13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]

D018: Waste Benzene

Disposal instructionsConsult authorities before disposal. Contents under pressure. Do not puncture, incinerate

or crush. Incinerate the material under controlled conditions in an approved incinerator. 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, flammable

Hazard class 2.1 **UN** number 1950

Additional information:

Packaging exceptions LTD QTY

5F Item Labels required 2.1 **Transport Category** 2

IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class 2.1 **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.

All components are on the U.S. EPA TSCA Inventory List.

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

2-Butoxyethanol 111-76-2 1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1,2, or 3,

R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or

sulfonate, Chemical Category N230)

1.0 % de minimis concentration (applies to R-(OCH2CH2)n-OR', where n = 1,2, or 3, Diethylene Glycol Monobutyl Ether 112-34-5

R=alkyl C7 or less, or R = phenyl or alkyl substituted phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or

sulfonate, Chemical Category N230)

Toluene 108-88-3 1.0 % de minimis concentration

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

CERCLA (Superfund) reportable quantity

Toluene: 1000.0000 Acetone: 5000.0000

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

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region Inventory name On inventory (yes/no)* Inventory of Existing Chemical Substances in China (IECSC) China Yes Europe European Inventory of New and Existing Chemicals (EINECS) Yes 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)

MSDS US 5/6 Product #: 880 Revision date: 12-MAR-2008 Print date: 12-MAR-2008

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

2-Butoxyethanol 111-76-2 Present

Acetone 67-64-1 Environmental hazard Diethylene Glycol Monobutyl Ether 112-34-5 Environmental hazard

n-Butane 106-97-8 Present Propane 74-98-6 Present

Toluene 108-88-3 Environmental hazard

16. Other Information

HMIS® ratings Health: 2*

Flammability: 3 Physical hazard: 0

Prepared by Regulatory Compliance

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.

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