

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 873-002

Product name Germicidal Cleaner

Effective date 06-May-2011
Company information Claire Mfg. 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 # 09

Supersedes date 01-Jul-2010

2. Hazards Identification

Emergency overview Aerosol. Will be easily ignited by heat, spark or flames. CONTENTS UNDER

PRESSURE.

Potential health effects

Eyes Moderately irritating to the eyes.

Skin Harmful if absorbed through the skin.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal.

Harmful if inhaled.

Ingestion Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.

Target organs 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.

Kidney. Blood. Central nervous system. Liver. 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 Corneal damage. Narcosis. Liver enlargement. Conjunctivitis. Defatting of the skin.

Irritation.

3. Composition / Information on Ingredients

| Components | CAS# | Percent |
|------------------------------------------------------------|----------|---------|
| 2-Butoxyethanol | 111-76-2 | 3 - 5 |
| n-Butane | 106-97-8 | 1 - 3 |
| Non-hazardous and other components below reportable levels | | > 90 |

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention

immediately.

Skin contact Wash off with warm water and soap. Get medical attention if irritation develops or

persists.

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Ingestion Have victim rinse mouth thoroughly with water. 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.

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5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media Large Fires: Water spray, fog or regular foam.

Small Fires: Dry chemical, CO2, water spray or regular foam.

Protection of firefighters

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 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. Avoid prolonged exposure.

Storage Level 1 Aerosol (NFPA 30B) 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

Not established

Not established

sunlight. Keep out of the reach of children.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

| Components | CAS# | TWA | STEL | Ceiling |
|-----------------|----------|----------|-----------------|-----------------|
| 2-Butoxyethanol | 111-76-2 | 20 ppm | Not established | Not established |
| n-Butane | 106-97-8 | 1000 ppm | Not established | Not established |
| OSHA | | | | |
| Components | CAS# | TWA | STEL | Ceiling |

Personal protective equipment

2-Butoxyethanol

Eye / face protectionWear chemical goggles. **Skin protection**Protective gloves.

111-76-2

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

50 ppm

appropriate certified respirators.

9. Physical & Chemical Properties

Appearance Compressed liquefied gas. **Boiling point** 212 °F (100 °C) estimated

Color Pale yellow

Density 0.9785 g/cm3 estimated **Flammability (HOC)** 3.4393 kJ/g estimated

Flash back No

Flash point -156 °F (-104.4 °C)

Product name: Germicidal Cleaner
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Form Aerosol.
Freezing point Not available

OdorfruitypH11.8 - 12.8Physical stateLiquid.

Pressure 55 - 75 psig @70F

Solubility Partially Specific gravity 0.9786

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition. Stable at normal conditions.

Conditions to avoid Heat, flames and sparks.

Incompatible materials None known.

Hazardous decomposition products May include oxides of oxides of carbon.

11. Toxicological Information

Acute effects Acute LD50: 4536 mg/kg estimated, Rat, Dermal

Acute LC50: 44 mg/l/4h estimated, Rat, Inhalation

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

2-Butoxyethanol 111-76-2 Inhalation LC50 Rat 2.21 mg/L 4 h; Inhalation LC50 Rat 450 ppm 4 h; Oral LD50 Rat

470 mg/kg; Dermal LD50 Rat 2270 mg/kg; Dermal LD50 Rabbit 220 mg/kg

n-Butane 106-97-8 Inhalation LC50 Rat 658 mg/L 4 h

Sensitization Not expected to be hazardous by OSHA criteria.

Teratogenicity Not expected to be hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity LC50 1162 mg/L, Fish, 96.00 Hours,

EC50 17668 mg/L, Daphnia, 48.00 Hours, IC50 86.04 mg/L, 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

Disposal instructionsContents under pressure. 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 UN number 1950

Additional information:

Packaging exceptionsLTD QTYItem5FLabels requiredNoneTransport Category2



IATA

Basic shipping requirements:

Proper shipping name Aerosols, flammable

Hazard class2.1UN number1950

Additional information:

Packaging exceptions LTD QTY
Labels required 2.1



15. Regulatory Information

US federal regulationsThis 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

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)

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely No.

hazardous substance

Section 311 hazardous chemical Yes

Hazard categories (311/312) Immediate Hazard - Yes

Delayed Hazard - No 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) European Inventory of New and Existing Chemicals (EINECS) Europe No European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan No Existing Chemicals List (ECL) Korea Nο 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

U.S. - Pennsylvania - RTK (Right to Know) List

2-Butoxyethanol 111-76-2 Present n-Butane 106-97-8 Present

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16. Other Information

Further information HMIS Trademark Statement

HMIS® ratings Health: 1

Flammability: 2 Physical hazard: 0 Personal protection:

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.

MSDS sections updated Product and Company Identification: Product Review

Composition / Information on Ingredients: Ingredients

Physical & Chemical Properties: Physical & Chemical Properties

Prepared by Regulatory Compliance