



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 876-001  
**Product name** Germicidal Cleaner with Country Fresh Scent  
**Effective date** 12-Aug-2009  
**Company information** Claire Manufacturing Co.  
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 #** 04  
**Supersedes date** 10-Jan-2008

## 2. Hazards Identification

**Emergency overview** CONTENTS UNDER PRESSURE. Aerosol.  
Harmful in contact with eyes. Prolonged exposure may cause chronic effects.

**Potential health effects**

**Routes of exposure** Eye contact. Skin contact. Ingestion.

**Eyes** Contact may irritate or burn eyes. Eye contact may result in corneal injury.

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

**Ingestion** Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

**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.  
Blood. Central nervous system.

**Chronic effects** Unconsciousness. Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage.

**Signs and symptoms** Corneal damage. Narcosis. Cyanosis. 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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Skin contact** Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops or persists.

**Inhalation** If symptoms develop move victim to fresh air. If symptoms persist, get medical attention.

**Ingestion** Have victim rinse mouth thoroughly with water. If ingestion of a large amount does occur, call a poison control center immediately.

## 5. Fire Fighting Measures

|                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Flammable properties</b>                                  | Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.                                                                                                                                                                                                                                                                                                          |
| <b>Extinguishing media</b>                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Suitable extinguishing media</b>                          | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Protection of firefighters</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protective equipment and precautions for firefighters</b> | 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

|                                |                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for containment</b> | 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. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. |
| <b>Methods for cleaning up</b> | 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.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.                             |

## 7. Handling and Storage

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | 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. Avoid prolonged exposure.                                                      |
| <b>Storage</b>  | Level 1 Aerosol.<br>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 the container dry. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit. |

## 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         |
|-----------------|----------|--------|-----------------|-----------------|
| 2-Butoxyethanol | 111-76-2 | 50 ppm | Not established | Not established |

### Personal protective equipment

|                               |                                                                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye / face protection</b>  | Wear chemical goggles.                                                                                                                                                                                                                   |
| <b>Skin protection</b>        | Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.                                                                                                                                                |
| <b>Respiratory protection</b> | 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

|                      |                           |
|----------------------|---------------------------|
| <b>Appearance</b>    | Compressed liquefied gas. |
| <b>Boiling point</b> | 212 °F (100 °C) estimated |

|                           |                                |
|---------------------------|--------------------------------|
| <b>Color</b>              | Yellow.                        |
| <b>Flammability (HOC)</b> | 3.3983 kJ/g estimated          |
| <b>Flash back</b>         | No                             |
| <b>Flash point</b>        | -156 °F (-104.4 °C) Propellant |
| <b>Form</b>               | Aerosol.                       |
| <b>Odor</b>               | Characteristic.                |
| <b>pH</b>                 | 11.82 - 12.82                  |
| <b>Physical state</b>     | Liquid.                        |
| <b>Pressure</b>           | 60 - 70 psig @ 70F             |
| <b>Solubility</b>         | Partially                      |
| <b>Specific gravity</b>   | 0.9786 estimated               |

## 10. Chemical Stability & Reactivity Information

|                                         |                                                |
|-----------------------------------------|------------------------------------------------|
| <b>Chemical stability</b>               | Risk of ignition.                              |
| <b>Conditions to avoid</b>              | Heat, flames and sparks.                       |
| <b>Incompatible materials</b>           | None known.                                    |
| <b>Hazardous decomposition products</b> | No hazardous decomposition products are known. |

## 11. Toxicological Information

|                      |                                               |
|----------------------|-----------------------------------------------|
| <b>Acute effects</b> | Acute LD50: 4536 mg/kg estimated, Rat, Dermal |
|----------------------|-----------------------------------------------|

## 12. Ecological Information

|                    |                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b> | Components of this product have been identified as having potential environmental concerns. |
|--------------------|---------------------------------------------------------------------------------------------|

LC50 1165 mg/L estimated, Fish, 96.00 Hours,  
 EC50 43604 mg/L estimated, Daphnia, 48.00 Hours,  
 IC50 86.05 mg/L estimated, Algae, 72.00 Hours,

## 13. Disposal Considerations

|                              |                                                                                                                                                                                                                                                                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste codes</b>           | D001: Waste Flammable material with a flash point <140 F<br>D002: Waste Corrosive material [pH <=2 or >=12.5, or corrosive to steel]                                                                                                                                                                                                                    |
| <b>Disposal instructions</b> | Contents under pressure. Do not puncture, incinerate or crush. 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:

|                                |                    |
|--------------------------------|--------------------|
| <b>Proper shipping name</b>    | Consumer commodity |
| <b>Hazard class</b>            | ORM-D              |
| <b>Subsidiary hazard class</b> | None               |

#### Additional information:

|                             |          |
|-----------------------------|----------|
| <b>Packaging exceptions</b> | 156, 306 |
| <b>Packaging non bulk</b>   | 156, 306 |
| <b>Packaging bulk</b>       | None     |

**IMDG****Basic shipping requirements:**

**Proper shipping name** AEROSOLS  
**Hazard class** 2.1  
**UN number** 1950  
**Additional information:**  
**Packaging exceptions** LTD QTY  
**Item** 5F  
**Labels required** None  
**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  
**Labels required** 2.1



|                                   |
|-----------------------------------|
| <b>15. Regulatory Information</b> |
|-----------------------------------|

**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**

|                 |          |                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Butoxyethanol | 111-76-2 | 1.0 % de minimis concentration (applies to R-(OCH <sub>2</sub> CH <sub>2</sub> ) <sub>n</sub> -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)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - Yes  
 Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

**Inventory status**

| Country(s) or region        | Inventory name                                             | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------|------------------------|
| China                       | Inventory of Existing Chemical Substances in China (IECSC) | Yes                    |
| 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****U.S. - Pennsylvania - RTK (Right to Know) List**

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

## 16. Other Information

**Further information**

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

**HMIS® ratings**

Health: 1

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.

**MSDS sections updated**

This document has undergone significant changes and should be reviewed in its entirety.

**Prepared by**

Regulatory Compliance