



# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Product number** 026  
**Product name** Concession Equipment Degreaser  
**Effective date** 03-Dec-2008  
**Company information** Claire Mfg  
500 Vista  
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** 27-Mar-2008

## 2. Hazards Identification

**Emergency overview** CONTENTS UNDER PRESSURE. Aerosol. Pressurized container may explode when exposed to heat or flame.  
Harmful in contact with eyes. Prolonged exposure may cause chronic effects.

**Potential health effects**

**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. Prolonged inhalation may be harmful.

**Ingestion** Exposure by ingestion of an aerosol is unlikely. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. 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. Conjunctiva. Sterility. 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. Can cause adverse reproductive effects. Pregnant women or women of child-bearing age should not be exposed to this product.

## 3. Composition / Information on Ingredients

| Components   | CAS #    | Percent |
|--|----------|---------|
| Ethyl Alcohol  | 64-17-5  | 15 - 20 |
| 2-Butoxyethanol  | 111-76-2 | 3 - 5   |
| n-Butane   | 106-97-8 | 1 - 3   |
| Non-hazardous and other components below reportable levels |          | 60 - 80 |

## 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** Immediately take off all contaminated clothing. 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**

Rinse mouth. 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**

Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.

**Extinguishing media****Suitable extinguishing media**

Large Fires: Water spray, fog or regular foam.

Small Fires: Dry chemical, CO<sub>2</sub>, 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 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.

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         |
|-----------------|----------|----------|-----------------|-----------------|
| Ethyl Alcohol   | 64-17-5  | 1000 ppm | Not established | Not established |
| 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         |
|-----------------|----------|----------|-----------------|-----------------|
| Ethyl Alcohol   | 64-17-5  | 1000 ppm | Not established | Not established |
| 2-Butoxyethanol | 111-76-2 | 50 ppm   | Not established | Not established |

**Personal protective equipment****Eye / face protection**

Wear chemical goggles.

**Skin protection**

Protective gloves.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

## 9. Physical & Chemical Properties

**Appearance**

Compressed liquefied gas.

**Boiling point**

204.8 °F (96.1 °C) estimated

|                           |                      |
|---------------------------|----------------------|
| <b>Color</b>              | Cloudy.              |
| <b>Flammability (HOC)</b> | 5.852 kJ/g estimated |
| <b>Flash back</b>         | No                   |
| <b>Flash point</b>        | -156 °F (-104.4 °C)  |
| <b>Form</b>               | Aerosol.             |
| <b>Odor</b>               | Characteristic.      |
| <b>pH</b>                 | 9.5 - 10.5           |
| <b>Physical state</b>     | Liquid.              |
| <b>Pressure</b>           | 60 - 70 psig @70F    |
| <b>Solubility</b>         | Partially            |
| <b>Specific gravity</b>   | 0.9437 estimated     |

## 10. Chemical Stability & Reactivity Information

|   |  |
|---|--|
| <b>Chemical stability</b>               | Risk of ignition. Stable at normal conditions. |
| <b>Conditions to avoid</b>              | Heat, flames and sparks.                       |
| <b>Incompatible materials</b>           | Isocyanates.                                   |
| <b>Hazardous decomposition products</b> | May include oxides of nitrogen.                |

## 11. Toxicological Information

|                             |  |
|-----------------------------|--|
| <b>Acute effects</b>        | Acute LD50: 5670 mg/kg estimated, Rat, Dermal<br>Acute LC50: 54 mg/l/4h estimated, Rat, Inhalation   |
| <b>Reproductive effects</b> | Hazardous by OSHA criteria. Possible reproductive hazard. Can cause adverse reproductive effects - such as birth defects, miscarriages, and infertility. |

## 12. Ecological Information

|                    |  |
|--------------------|--|
| <b>Ecotoxicity</b> | LC50 24316 mg/L, Fish, 96.00 Hours,<br>EC50 31430 mg/L, Daphnia, 48.00 Hours,<br>IC50 12207 mg/L, Algae, 72.00 Hours,<br>Components of this product have been identified as having potential environmental concerns. |
|--------------------|--|

## 13. Disposal Considerations

|                              |   |
|------------------------------|---|
| <b>Waste codes</b>           | D001: Waste Flammable material with a flash point <140 F  |
| <b>Disposal instructions</b> | 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:

|                                |                    |
|--------------------------------|--------------------|
| <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 - Yes  
 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) | No                     |
| Europe                      | European Inventory of New and Existing Chemicals (EINECS)  | Yes                    |
| Europe                      | European List of Notified Chemical Substances (ELINCS)     | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)   | Yes                    |
| 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 |
| Ethyl Alcohol   | 64-17-5  | Present |
| n-Butane        | 106-97-8 | Present |

## 16. Other Information

### 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

Product and Company Identification: Alternate Trade Names  
Composition / Information on Ingredients: Ingredients  
Hazards Identification: Emergency overview  
Hazards Identification: Target organs  
Handling and Storage: Storage  
Physical & Chemical Properties: Physical & Chemical Properties  
Transport Information: Agency Name and Packaging Type/Transport Mode Selection