1. Product and Company Identification

Product number: 026-003
Product name: Concession Equipment Degreaser
Effective date: 09-Sep-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 #: 05
Supersedes date: 03-Dec-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: Ingestion. Skin contact. Eye contact.

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. May cause delayed lung damage. 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. Liver. Lungs.

Chronic effects: Unconsciousness. Conjunctiva. Liver 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.


3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>10 - 15</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>3 - 5</td>
</tr>
<tr>
<td>n-Butane</td>
<td>106-97-8</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Non-hazardous and other components below reportable levels</td>
<td>80 - 90</td>
<td></td>
</tr>
</tbody>
</table>

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: Move to fresh air. If symptoms persist, get medical attention.
Ingestion

If material is ingested, immediately contact a poison control center. Have victim rinse mouth thoroughly with water. Do not induce vomiting without advice from poison control center. 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. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media


Flammable properties

Protection of 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. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

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.

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. Keep away from heat, sparks, and flame. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Avoid exposure to long periods of sunlight. 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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>1000 ppm</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>20 ppm</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>n-Butane</td>
<td>106-97-8</td>
<td>1000 ppm</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

OSHA

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>TWA</th>
<th>STEL</th>
<th>Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>1000 ppm</td>
<td>Not established</td>
<td>Not established</td>
</tr>
<tr>
<td>2-Butoxyethanol</td>
<td>111-76-2</td>
<td>50 ppm</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

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. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

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### 9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Compressed liquefied gas.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>204.8 °F (96.1 °C) estimated</td>
</tr>
<tr>
<td>Color</td>
<td>Cloudy</td>
</tr>
<tr>
<td>Flammability (HOC)</td>
<td>5.852 kJ/g estimated</td>
</tr>
<tr>
<td>Flash back</td>
<td>No</td>
</tr>
<tr>
<td>Flash point</td>
<td>-156 °F (-104.4 °C) Propellant</td>
</tr>
<tr>
<td>Form</td>
<td>Aerosol</td>
</tr>
<tr>
<td>Odor</td>
<td>Characteristic.</td>
</tr>
<tr>
<td>pH</td>
<td>9.5 - 10.5</td>
</tr>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Pressure</td>
<td>60 - 75 psig @70F</td>
</tr>
<tr>
<td>Solubility</td>
<td>Partially</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.9437 estimated</td>
</tr>
</tbody>
</table>

### 10. Chemical Stability & Reactivity Information

**Conditions to avoid**: Heat, flames and sparks.

**Hazardous decomposition products**: No hazardous decomposition products are known.

### 11. Toxicological Information

**Acute effects**: Acute LD50: 5655 mg/kg estimated, Rat, Dermal

**Reproductive effects**: Hazardous by OSHA criteria. Possible reproductive hazard. Can cause adverse reproductive effects - such as birth defects, miscarriages, and infertility.

### 12. Ecological Information

**Ecotoxicity**: Components of this product have been identified as having potential environmental concerns.

LC50 24215 mg/L estimated, Fish, 96.00 Hours,  
EC50 30868 mg/L estimated, Daphnia, 48.00 Hours,  
IC50 11844 mg/L estimated, Algae, 72.00 Hours,

### 13. Disposal Considerations

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

**Disposal instructions**: 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**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Consumer commodity</td>
</tr>
<tr>
<td>Hazard class</td>
<td>ORM-D</td>
</tr>
<tr>
<td>Subsidiary hazard class</td>
<td>None</td>
</tr>
<tr>
<td>Packaging exceptions</td>
<td>156, 306</td>
</tr>
<tr>
<td>Packaging non bulk</td>
<td>156, 306</td>
</tr>
<tr>
<td>Packaging bulk</td>
<td>None</td>
</tr>
</tbody>
</table>
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

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
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)
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

<table>
<thead>
<tr>
<th>Further information</th>
<th>HMIS® is a registered trade and service mark of the NPCA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS® ratings</td>
<td>Health: 1*</td>
</tr>
<tr>
<td></td>
<td>Flammability: 2</td>
</tr>
<tr>
<td></td>
<td>Physical hazard: 0</td>
</tr>
<tr>
<td>Disclaimer</td>
<td>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.</td>
</tr>
<tr>
<td>MSDS sections updated</td>
<td>This document has undergone significant changes and should be reviewed in its entirety.</td>
</tr>
<tr>
<td>Prepared by</td>
<td>Regulatory Compliance</td>
</tr>
</tbody>
</table>