1. Product and Company Identification

Product number: 031-004  
Product name: Mr. Jinx All Purpose Cleaner  
Effective date: 03-Jan-2012  
Company information: Claire Manufacturing Co.  
1005 S. Westgate Drive  
Addison, IL 60101 United States  
Company phone: General Assistance 630-543-7600  
Emergency telephone US: 800-424-9300  
Version #: 17  
Supersedes date: 16-Dec-2010

2. Hazards Identification

Emergency overview: Aerosol. CONTENTS UNDER PRESSURE.

Potential health effects:
- **Routes of exposure**
  - Ingestion: Ingestion injuries are not known or expected under normal use.
  - Eyes: Health injuries are not known or expected under normal use.
  - Skin: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
  - 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.
  - Central nervous system. Lungs.

Chronic effects:
- Unconsciousness. Cyanosis (blue tissue condition, nails, lips, and/or skin). May be harmful if absorbed through skin. 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 injury.

Signs and symptoms:

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<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>&gt; 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 if irritation develops and persists.
- **Skin contact**: Immediately take off all contaminated clothing. Wash off with warm water and soap. Get medical attention if irritation develops and persists.
- **Inhalation**: If inhalation of gas/fume/vapor/dust/mist from the material is excessive (air concentration is greater than the TLV or health effects are noticed), immediately remove the affected person(s) to fresh air. Call a physician if symptoms develop or persist.
- **Ingestion**: If ingestion of a large amount does occur, call a poison control center immediately.
5. Fire Fighting Measures

Flammable properties
Heat may cause the containers to explode. Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.

Extinguishing media
Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Protection of firefighters
In case of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

6. Accidental Release Measures

Methods for containment
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.

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 surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling
Pressurized container: Do not pierce or burn, even after use. Do not smoke while using or until sprayed surface is thoroughly dry. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.

Storage
Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Store in cool place. Store in a well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. Level 1 Aerosol (NFPA 30B)

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>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>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
Skin protection
Wear appropriate chemical resistant clothing.

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.

9. Physical & Chemical Properties

Appearance
Compressed liquefied gas.

Boiling point
212 °F (100 °C) estimated

Color
Pale yellow

Density
0.9782 g/cm3 estimated

Flammability (HOC)
3.4413 kJ/g estimated

Flash back
No
Flash point: -156 °F (-104.4 °C) Propellant
Form: Aerosol.
Freezing point: Not available
Odor: Pleasant.
pH: 11.8 - 12.8
Physical state: Liquid.
Pressure: 40 - 75 psig @70F
Solubility: Partially
Specific gravity: 0.9783 estimated

### 10. Chemical Stability & Reactivity Information

**Chemical stability**
Material is stable under normal conditions. Risk of ignition.

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

**Incompatible materials**
None known.

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

### 11. Toxicological Information

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

**Component analysis - LD50**

<table>
<thead>
<tr>
<th>Compound</th>
<th>LD50 Value</th>
</tr>
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<tr>
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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

**Sensitization**
Not expected to be hazardous by OSHA criteria.

**Teratogenicity**
Not expected to be hazardous by OSHA criteria.

### 12. Ecological Information

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

- LC50 1172 mg/L, Fish, 96.00 Hours,
- EC50 17672 mg/L, Daphnia, 48.00 Hours,
- IC50 88.34 mg/L, Algae, 72.00 Hours,

### 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]

**Disposal instructions**
Contents under pressure. Do not puncture, incinerate or crush. Dispose of this material and its container to hazardous or special waste collection point. If discarded, this product is considered a RCRA ignitable waste, D001.

### 14. Transport Information

**Department of Transportation (DOT) Requirements**

- **Basic shipping requirements:**
  - Proper shipping name: Aerosols
  - Hazard class: 2.1
  - UN number: UN1950

**Additional information:**

- **Special provisions:** 153, N82
- **Packaging exceptions:** LTD QTY
- **Packaging non bulk:** None
- **Packaging bulk:** None
### IMDG

<table>
<thead>
<tr>
<th>Basic shipping requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
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<tr>
<td>Hazard class</td>
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<tr>
<td>UN number</td>
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</tbody>
</table>

### Additional information:

<table>
<thead>
<tr>
<th>Packaging exceptions</th>
<th>LTD QTY</th>
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</thead>
<tbody>
<tr>
<td>Item</td>
<td>5F</td>
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<tr>
<td>Labels required</td>
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<tr>
<td>Transport Category</td>
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</table>

### IATA

<table>
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<tr>
<th>Basic shipping requirements:</th>
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<tr>
<td>Hazard class</td>
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<tr>
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<td>2.1</td>
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### 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)**

- Section 302 extremely hazardous substance
  - No
- 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**

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>No</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of New and Existing Chemicals (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
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<th>Inventory Number</th>
<th>Status</th>
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<tbody>
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Product name: Mr. Jinx All Purpose Cleaner

Product #: 031-004  Revision date: 03-JAN-2012  Print date: 03-JAN-2012

MSDS US 4 / 5
Further information

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

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. The information in the sheet was written based on the best knowledge and experience currently available.

MSDS sections updated

Product and Company Identification: Product Review
Hazards Identification: Main symptoms
Transport Information: Product Shipping Name/Packing Group

Prepared by

Regulatory Compliance