1. Product And Company Identification

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical Scientific</td>
<td>Chase Products Co.</td>
</tr>
<tr>
<td>2727 Gardner Road</td>
<td>19th and Gardner Road</td>
</tr>
<tr>
<td>Broadview, IL 60155</td>
<td>Broadview, IL 60155 USA</td>
</tr>
</tbody>
</table>

Company Contact: Robb Svendsen

Issue Date: 09/30/2009

Product Name: SURGICAL SCIENTIFIC HARD SURFACE CLEANER

Chemical Name: 7-7694

MSDS Number: 4566

Product Code: 431-2301

Product/Material Uses - Glass Cleaner

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent Of Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-BUTOXYETHANOL</td>
<td>111-76-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>*BUTANE</td>
<td>106-97-8</td>
<td></td>
</tr>
<tr>
<td>*PROPANE</td>
<td>74-98-6</td>
<td></td>
</tr>
</tbody>
</table>

*Components of Hydrocarbon Propellant. This product may also contain isobutane (CAS# 75-28-5). Hazardous components, according to OSHA, are listed when present at 1.0% or greater. Carcinogens are listed when present at 0.1% or greater.

3. Hazards Identification

**Primary Routes(s) Of Entry** - Ingestion (possible, but considered unlikely), eye contact, skin contact, inhalation.

**Eye Hazards** - Can cause irritation after contact with the eyes.

**Skin Hazards** - May cause skin irritation after prolonged contact with skin. 2-Butoxyethanol penetrates skin readily. Frequent or wide spread contact may result on skin absorption of potentially harmful amounts.

**Ingestion Hazards** - This is an aerosol product, ingestion is unlikely to occur. 2-Butoxyethanol may cause red blood cell hemolysis and possible liver and kidney damage.

**Inhalation Hazards** - Deliberated inhalation of concentrated vapor or mist may cause headaches, dizziness and nausea.

**Chronic/Carcinogenicity Effects** - 2-Butoxyethanol may cause hemolysis of the blood cells leading to possible liver and kidney damage. None of the ingredients, present in excess of 0.1%, are listed as carcinogenic by NTP, IARC or OSHA.

**Teratogenicity (Birth Defects)** - Not known

**Reproductive Effects** - Not known

**Neurotoxicity** - Not known

**Mutagenicity (Genetic Effect)** - Not known

**Signs And Symptoms** - Acute: Deliberated inhalation of concentrated vapor or mist may cause headaches, dizziness
3. Hazards Identification - Continued

and nausea. Prolonged and repeated contact with skin may cause irritation. Contact with the eyes causes irritation.  

**Conditions Aggravated By Exposure** - May aggravate pre-existing skin disorders.  
**Conditions Aggravated By Overexposure** - May aggravate pre-existing skin disorders.

### First Aid (Pictograms)

#### 4. First Aid Measures

**Eye** - Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.  
**Skin** - Wash skin with soap and water. If irritation develops, consult a physician.  
**Ingestion** - Ingestion from an aerosol product is unlikely to occur.  
**Inhalation** - If overcome by vapor move person to fresh air. If person is not breathing, call 911 or an ambulance, then provide artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

### 5. Fire Fighting Measures

**Flash Point:** Not available °F Not available °C  
**Flash Point Method:** Not available  
**Lower Explosive Limit:** Not available  
**Upper Explosive Limit:** Not available  

**Fire And Explosion Hazards** - This product is an aerosol product for which Flame Projection is 0 in. Temperatures above 120 F may cause cans to burst.  
**Extinguishing Media** - Use CO2 (Carbon Dioxide), dry chemical, or water fog.  
**Fire Fighting Instructions** - Water spray may be used to cool cans in the vicinity of fire or excessive heat.

### 6. Accidental Release Measures

Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

### 7. Handling And Storage

**Handling And Storage Precautions** - Store in a cool, dry place away from heat and open flame.  
**Handling Precautions** - Do not deliberately inhale vapor or spray mist. Avoid getting spray into eyes. Keep out of reach of children.  
**Storage Precautions** - Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity). **AEROSOL STORAGE LEVEL I (NFPA-30B)**  
**Work/Hygienic Practices** - Wash thoroughly after handling.

### Protective Clothing (Pictograms)

#### 8. Exposure Controls/Personal Protection

**Engineering Controls** - Use with adequate general and local exhaust ventilation.  
**Eye/Face Protection** - Conventional eyeglasses to guard against splashing.  
**Skin Protection** - Household type gloves.  
**Respiratory Protection** - None required if used in a well-ventilated area.
### 8. Exposure Controls/Personal Protection - Continued

<table>
<thead>
<tr>
<th>Ingredient(s) - Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2-BUTOXYETHANOL</strong></td>
</tr>
<tr>
<td>ACGIH TLV-TWA 20 ppm (Skin) ; OSHA PEL-TWA 50 ppm (Skin)</td>
</tr>
<tr>
<td><strong>BUTANE</strong></td>
</tr>
<tr>
<td>ACGIH TLV-TWA 1000 ppm</td>
</tr>
<tr>
<td><strong>PROPANE</strong></td>
</tr>
<tr>
<td>ACGIH TLV-TWA 2500 ppm ; OSHA PEL-TWA 1,000 ppm</td>
</tr>
</tbody>
</table>

### 9. Physical And Chemical Properties

**Appearance** - Clear, water-like liquid.
**Odor** - Mild perfumed odor.
**Chemical Type:** Mixture
**Physical State:** Liquid
**Melting Point:** Not applicable °F Not applicable °C
**Boiling Point:** Water 212 °F Water 100 °C
**Specific Gravity:** 1.0 - 1.1 concentrate
**Percent VOCs:** 9.08
**pH Factor:** 9.7 - 10.9
**Solubility:** Soluble in water
**Evaporation Rate:** Faster than butyl acetate

### 10. Stability And Reactivity

**Stability:** Stable
**Hazardous Polymerization:** Will not occur

**Conditions To Avoid (Stability)** - Temperatures above 120 F
**Incompatible Materials** - Avoid heat and open flame.
**Hazardous Decomposition Products** - None known in a significant amount.
**Conditions To Avoid (Polymerization)** - Temperatures above 120 F

### 11. Toxicological Information

No Data Available...

### 12. Ecological Information

**Ecotoxicological Information** - No specific ecological data is available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

### 13. Disposal Considerations

Do not puncture or incinerate container. **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

### 14. Transport Information

**Proper Shipping Name** - ORM-D Consumer Commodity

**Hazard Class**

2.1

**DOT Identification Number**

UN1950
14. Transport Information - Continued

**DOT Shipping Label**
Aerosol Consumer Commodity

15. Regulatory Information

**U.S. Regulatory Information** - All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**SARA Hazard Classes**
Acute Health Hazard

**SARA Title III - Section 313 Form "R"/TRI Reportable Chemical**

**SARA Section 313 Notification** - This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material: 2-Butoxyethanol. See section 2 for % amount in this product.

**Ingredient(s) - U.S. Regulatory Information**
2-BUTOXYETHANOL
SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

**Ingredient(s) - State Regulations**
2-BUTOXYETHANOL
New Jersey - Workplace Hazard; New Jersey - Environmental Hazard; Pennsylvania - Workplace Hazard; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

*BUTANE
New Jersey - Workplace Hazard; New Jersey - Environmental Hazard; New Jersey - Special Hazard; Pennsylvania - Workplace Hazard; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

*PROPANE
New Jersey - Workplace Hazard; New Jersey - Environmental Hazard; New Jersey - Special Hazard; Pennsylvania - Workplace Hazard; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

16. Other Information

**Revision/Preparer Information**
MSDS Preparer: Laura E. Radevski
MSDS Preparer Phone Number: 708-865-1000
This MSDS Supersedes A Previous MSDS Dated: 09/14/2009
Disclaimer

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purposes(s).

Surgical Scientific