

**MATERIAL SAFETY DATA SHEET**  
**MSDS**

ITEM NUMBER: 043 - SPRAYWAY AMMONIATED GLASS CLNR  
 VERSION 2 EFFECTIVE DATE: 04/12/01 SUPERCEDES: 06/04/98 PREPARED BY: Ron Cepa  
 Section(s) Revised: II, IV, VI, VIII  
 IDENTITY (As Used On Label and List): AMMONIATED GLASS CLEANER

EMERGENCY MEDICAL Telephone# 1-800-228-5635 (24 Hrs)  
 Outside of the U.S.A. Call 651-632-9275

PRODUCT HAZARD RATINGS (NFPA): Health =1, Fire =2, Reactivity =0, Protective Equipment = B  
 (Rating Legend: 4 = Extreme, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal)

**SECTION I**

SPRAYWAY INC.  
 484 VISTA AVE.  
 ADDISON, IL 60101

TELEPHONE NUMBER FOR INFORMATION: 1-800-332-9000  
 DATE PRINTED: 5/21/01  
 NAME OF PREPARER: Ron Cepa

**SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION**

| Chemical Names                  | Exposure Limits<br>(LD50-Oral Rat) | SARA Title III<br>SEC 313 | ACGIH<br>TLV-TW/STEL | OSHA<br>PEL-TWA/STEL | % By Wt. |
|---------------------------------|------------------------------------|---------------------------|----------------------|----------------------|----------|
| 2-Butoxyethanol                 | 111-76-2                           | Yes                       | 20 ppm*              | 25 ppm*              | 1-5      |
| Dimethyl ether                  | 115-10-6                           | No                        | NE                   | NE                   | 1-5      |
| Liquefied petroleum gas mixture | See below                          | No                        | --                   | --                   | 5-10     |
| Isobutane                       | 75-28-5                            | --                        | NE                   | NE                   | --       |
| Propane                         | 74-98-6                            | --                        | 1000 ppm             | NE                   | --       |

\* Skin

Balance of ingredients are non-hazardous or below reportable levels.

**SECTION III - PHYSICAL CHARACTERISTICS**

Boiling Point: NA Vapor Pressure (psig): 135 +/-5 @130F Specific Gravity (H20=1): <1.0  
 Solubility/Water: Appreciable Vapor Density (AIR=1): >1 Evaporation Rate (Ether=1): <1  
 Appearance and Odor: Wide, hollow cone spray, semi-stable foam, ammonia odor.

**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**

Aerosol Flammability: Product is not required to be labeled as flammable as described in 16 CFR 1500.3 and 1500.45.  
 Flashpoint: <0F (Propellant); >100F (Concentrate)  
 Flammable Limits - % Volume In Air: (Propellant) LEL: 3.4 UEL: 18.0  
 Extinguishing Media: Carbon dioxide, foam and/or dry chemical may be used.  
 Special Fire Fighting Procedures: Containers should be cooled with water to prevent vapor pressure build up.  
 Use equipment or shielding, as required, to protect personnel from bursting, rupturing or venting containers.  
 Unusual Fire and Explosion Hazards: At elevated temperatures containers exposed to direct flame or heat contact should be cooled with water to prevent weakening of container structure.

**SECTION V - REACTIVITY DATA**

Stability: Stable Hazardous Polymerization: NA  
 Incompatibility (Materials to avoid): Oxidizing agents.  
 Hazardous Decomposition Products: Oxides of carbon and additional toxic chemicals may be formed in small amounts.  
 Conditions to Avoid: Do not store above 54C-130F. Keep away from heat, direct sunlight, open flames or sparks.  
 Dropping of containers may cause bursting.

**SECTION VI - HEALTH HAZARD DATA**

Route(s) of Entry: Inhalation: X Eyes: X Skin: X Ingestion:  
 Signs and Symptoms of Exposure: High concentrations may produce headaches, dizziness, and nausea.  
 Prolonged skin contact may cause drying, irritation and dermatitis. Eye contact may cause mild burning and irritation.  
 Medical Conditions Generally Aggravated by Exposure: Preexisting skin or eye disorders may be aggravated by exposure to this product.  
 Emergency and First Aid Procedures: Eye Contact: Flush eyes with plenty of water for 15 minutes while holding eyelids open. Get medical attention if irritation persists. Skin Contact: Remove contaminated clothing. Flush skin with water; follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention. Ingestion: Get medical attention.  
 CARCINOGENICITY:  
 No regulated ingredients.

## TOXICITY INFORMATION:

2-Butoxyethanol:

2-butoxyethanol may affect the liver and kidneys and may increase red blood cell hemolysis.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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Releases or Spilled: Remove all sources of ignition and ventilate area. Soak up spill with an inert absorbent and place into a designated disposal container. Consult local regulatory agency for proper disposition of material.

Y09Waste Disposal Method: Do not puncture or incinerate containers. When contents are depleted continue to depress button until all gas is expelled. Dispose of container in accordance with local, state, and federal regulations.

Handling And Storing: Avoid breathing vapor. Keep away from heat and flame. Use with adequate ventilation. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 130F (54C). Store as a Level 1 Aerosol (NFPA 30B).

Other Precautions: Please read and follow the directions on the product label; they are your best guide to using this product in the most effective way, and give the necessary safety precautions to protect your health.

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**SECTION VIII - EMPLOYEE PROTECTION**

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Respiratory Protection (Type): None required if good ventilation is maintained. If exposure exceeds occupational exposure limits (Sec. II), use a NIOSH approved respirator to prevent overexposure.

Ventilation: General ventilation is adequate under normal conditions, mechanical ventilation is optional.

Protective Gloves: Chemical resistant gloves are recommended - consult glove manufacturer to determine the proper type for a specific operation.

Eye Protection: Chemical safety glasses are recommended.

Other Protective Clothing or Equipment: Wear impervious clothing to prevent skin contact.

Work/Hygienic Practices: Ensure strict sanitary conditions are conformed to when working around chemicals.

Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and CFR 1910.133.

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**SECTION IX - OTHER REGULATORY CONTROLS**

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Governmental Listings: Ingredients of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

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**SECTION X - TRANSPORTATION REQUIREMENTS (D.O.T. CLASSIFICATION)**

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Shipping Name: Consumer Commodity      Hazard Class: ORM-D

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NG-- Negligible    NA-- Not Applicable    NE-- Not Established    UN-- Unavailable    ND-- Not Determined

While the information set forth herein is believed to be accurate as of the date hereof, the Company makes no warranty or guarantee, express or implied, and disclaims all liability arising out of the use of this information.

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