

# MATERIAL SAFETY DATA SHEET

4511  
10/22/01

## PRODUCT NUMBER 4511- ECONOMY GLASS CLEANER

PRODUCT HAZARD RATINGS (HMIS): - Health = 1\*, Fire = 2, Reactivity = 0, Protective Equipment = B  
(Rating Legend: 4 = Extreme, 3 = Serious, 2 = Moderate, 1 = Slight, 0 = Minimal)  
Product manufactured after January 1,2004

### SECTION I

**International Epoxies & sealers**  
30241 commerce Drive  
San Antonio, Florida 33576

**24 Hour Emergency Information Phone (INFOTRAC) (800) 535-5053**  
Information Phone: (800) 451-7206

### SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Chemical Names	CAS#	SARA Title III SEC 313	ACGIH TLV/TWA	OSHA PEL	% By Wt.
Isopropyl alcohol	67-63-0	No	400ppm/500ppm	400ppm/NE	1-5
2-Butoxyethanol	111-76-2	Yes	20ppm*/NE	25ppm*/NE	1-5
Liquefied petroleum gas mixture	See below	No	--/--	--/--	1-5
Propane	74-98-6	--	2500ppm/NE	1000ppm/NE	--
n-Butane	106-97-8	--	800ppm/NE	NE/NE	--

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

\* Skin

### SECTION III - PHYSICAL CHARACTERISTICS

Boiling Point: NA      Vapor Pressure (psig): 153 @ 130F / 68 @ 70F      Specific Gravity (H2O=1): 0.9554  
pH: 10.15      Solubility/Water: Completely      Vapor Density (AIR=1): ND      Evaporation Rate (Ether=1): ND  
Appearance and Odor: Aerosol spray with characteristic 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); >53F (Concentrate)

Flammable Limits - % Volume In Air (Propellant): LEL: 1.9      UEL: 9.5

Extinguishing Media: Carbon dioxide, water spray, foam, or dry chemical.

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: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protection clothing. At elevated temperatures (over 54C-130F) 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, acids, bases.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, hydrocarbon vapors.

Conditions to Avoid: Keep away from heat, sparks, flames, and electric arcs. Dropping of containers may cause bursting.

### SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry - Inhalation: X      Eyes: X      Skin: X      Ingestion:

HAZARDS IDENTIFICATION: EYES: May cause mild irritation. SKIN: Prolonged or repeated contact may cause irritation.

INHALATION: Irritating to eyes, nose and respiratory tract. Can cause dizziness, headaches and incoordination.

INGESTION: Irritating to the mouth, throat and stomach. Can cause dizziness, faintness, headaches, and incoordination.

May cause nausea, vomiting, pain, and stomach upset (e.g., diarrhea).

AGGRAVATED MEDICAL CONDITIONS: May aggravate pre-existing skin conditions.

CHRONIC EFFECTS/TARGET ORGANS: Nervous system. Lungs and/or respiratory system.

EMERGENCY AND FIRST AID PROCEDURES: EYES: Immediately flush with plenty of water for at least 15 minutes. Get prompt medical attention. SKIN: Immediately flush with plenty of water for at least 15 minutes. Get prompt medical attention.

INHALATION: Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration. INGESTION: Get immediate medical attention. Do NOT induce vomiting unless directed by medical personnel. Never

give anything by mouth to an unconscious person.

## CARCINOGENICITY:

No regulated ingredients.

## TOXICITY INFORMATION:

## Isopropyl alcohol:

LD50 Oral (Rat):	5045 mg/kg
LD50 Dermal (Rabbit):	12,800 mg/kg
LC50 Inhalation (Rat):	12,000 ppm/8 hr.

## 2-Butoxyethanol:

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

LC50 Inhalation (Rat): male: 486 ppm ; female: 450 ppm

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

Releases or Spills: 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.

Waste 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, sparks and flame. Use with adequate ventilation. Do not puncture or incinerate containers. Do not expose to direct sunlight or store at temperatures above 120F (48.9C). Store as 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.

**SECTION VIII - EMPLOYEE PROTECTION**

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: 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.

**SECTION IX - OTHER REGULATORY CONTROLS**

## FEDERAL:

Toxic Substance Control Act (TSCA): Ingredients of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

## STATE RIGHT-TO-KNOW:

Pennsylvania/New Jersey Right-To-Know (Chemical and CAS No.):

Deionized water	7732-18-5
Isopropyl alcohol	67-63-0
2-Butoxyethanol	111-76-2
Liquefied petroleum gas mixture	
Propane	74-98-6
n-Butane	106-97-8

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

Shipping Name: Consumer Commodity      Hazard Class: ORM-D

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.

EFFECTIVE DATE: Jan. 1,2004    PREPARED BY: INTERNATIONAL EPOXIES & SEALERS