

PRODUCT NAME: ABRO Glass Cleaner - Aerosol  
PRODUCT NUMBER/SIZE: GC-290

Revision Date: 10/29/2014

## SECTION 1 Identification of the Substance and of the Company/Undertaking

MANUFACTURER'S NAME: ABRO INDUSTRIES, INC.  
ADDRESS: 3580 Blackthorn Court  
South Bend, IN 46628  
USA  
PRODUCT DESCRIPTION: Glass cleaner  
COMPANY PHONE: 574-232-8289  
EMERGENCY 24-HR TELEPHONE: Chemtrec: US/Canada 1-800-424-9300  
International +1-703-527-3887

## SECTION 2 Hazards Identification

HMIS: Health 2 Flamm. 1 React. 0 NFPA: Tox. 2 Flamm. 1 React. 0

### Classification:

Non-Flammable Aerosol – Category 3  
Skin Irritation - Category 2  
Eye Irritation – Category 2B

### Label Pictogram(s):



Signal Word: WARNING

Hazard Phrases: Pressurized container: may burst if heated. Causes skin and eye irritation.

Precautionary Phrases: Keep away from open flames. No smoking. Do not spray on an open flame or other ignition source. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF ON SKIN Take off contaminated clothing and wash it before reuse. Wash with plenty of water. If skin irritation occurs, get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention.

**Storage /  
Disposal:**

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Other:**

Keep out of reach of children. If medical advice is needed, have product container or label at hand. Read label before use.

**SECTION 3  
Composition/Information on Ingredients**

COMPONENTS	CAS Number	Percent by weight
Ethyl Alcohol	64-17-5	5 %
**Ethylene Glycol Monobutyl Ether	111-76-2	4 %
Propane	74-98-6	2 %
n-Butane	106-97-8	2 %
Non Hazardous Ingredients		87 %

**SECTION 4  
First Aid Measures****First Aid Measures****Immediate Medical  
Attention:**

Provide general supportive measures and treat symptomatically.

**Eyes**

Immediately flush eyes with water for at least 15 minutes. Get medical attention if any irritation persists.

**Skin**

Remove contaminated clothing and wash skin thoroughly with water. Get medical attention if irritation persists.

**Ingestion**

DO NOT induce vomiting unless directed to do so by a physician or poison control center. DO NOT give any liquids. Get medical attention immediately. Small amounts which accidentally enter the mouth should be rinsed out until the taste is gone.

**Inhalation**

Remove victim to fresh air. Apply artificial respiration if necessary. Get medical attention.

**Signs & Symptoms  
Of Over Exposure:**

Inhalation of vapors, mist or spray can cause irritation to nose, throat and lungs, and higher concentrations may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness and other central nervous system effects. Direct contact with material can cause severe irritation or damage to eyes. May cause severe skin irritation with prolonged or repeated contact. Removes natural oils and fats from skin. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death. This product has a low order of oral toxicity.

**Special Treatment:**

None. Treat symptomatically.

## SECTION 5 Fire Fighting Measures

<b>Extinguishing media</b>	Water spray, regular foam, dry chemical, CO <sub>2</sub>
<b>Hazardous Combustion:</b>	Unknown
<b>Protective Equipment and Precautions for firefighters:</b>	<p>Keep containers cool using water spray to avoid bursting containers. Wear full firefighting gear and respiratory protection.</p> <p>Contents under pressure. Do not use near fire, sparks, or flame. Do not puncture or incinerate container. Exposure to temperatures above 120°F may cause container to burst.</p>
<b>Flammability per Flame Projection Test</b>	NON-FLAMMABLE

## SECTION 6 Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures:</b>	No information available.
<b>Methods/materials for containment and cleanup:</b>	Absorb spill with inert material then place in a chemical waste container. Dispose of spill material in accordance with local, state or federal regulations.
<b>Environmental precautions:</b>	None required.

## SECTION 7 Handling and Storage

<b>Precautions for Safe Handling</b>	CAUTION: CONTENTS UNDER PRESSURE. Keep out of reach of children. Read label cautions carefully. Follow label directions to avoid injury. Use with adequate ventilation. Do not use in confined areas. Keep away from heat, sparks or open flames. Wash hands thoroughly after each use. Do not smoke while using. Avoid contact with skin and eyes. Avoid breathing vapor or mist. Do not puncture container.
<b>Conditions for Safe Storage</b>	Keep out of reach of children. Do not store near heat, sparks, or open flames. Do not expose to temperatures above 120°F as container may vent, rupture or burst. Do not puncture or incinerate container. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible materials. Store in accordance with NFPA 30B for Level 1 Aerosols.

## SECTION 8 Exposure Controls/Personal Protection

COMPONENTS	CAS Number	OSHA PEL	ACGIH TLV
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm

Ethylene Glycol	111-76-2	50 ppm	20 ppm
Monobutyl Ether		240 mg/m <sup>3</sup>	
Propane	74-98-6	Unknown	1000 ppm
n-Butane	106-97-8	Unknown	800 ppm

**Engineering Controls:** Maintain adequate ventilation.

**Personal Protective Equipment:**

**Skin** Wear CHEMICAL RESISTANT GLOVES if repeated skin contact occurs or causes irritation.

**Eyes** Wear SAFETY GLASSES or GOGGLES to prevent eye contact.

**Respiratory** Use respirator only as a last resort to control exposure.

## SECTION 9 Physical and Chemical Properties

<b>Appearance and Physical State:</b>	Colorless, clear liquid mixture packaged in pressurized aerosol spray can.
<b>Odor:</b>	Soft floral scent
<b>Odor Threshold:</b>	Unknown.
<b>pH:</b>	10.5 – 11.5
<b>Melting Point/Freezing Point:</b>	Not Available.
<b>Initial boiling point &amp; boiling range:</b>	Greater than 200 °F
<b>Flash Point:</b>	Not Available.
<b>Evaporation rate:</b>	Less than 1.0 (BuAc=1)
<b>Flammability (solid, gas)</b>	Not Available.
<b>Upper/lower flammability or explosive limits</b>	Not Available
<b>Vapor pressure</b>	Not Available.
<b>Vapor density</b>	Not Available.
<b>Relative density / Specific gravity</b>	0.984 – 0.996g/ml (concentrate).
<b>Solubility</b>	Insoluble in water
<b>Partition Coefficient n-Octanol/Water</b>	Not Available
<b>Auto-ignition Temperature:</b>	Not Available.
<b>Decomposition Temperature:</b>	Not Available.
<b>Viscosity:</b>	Not Available.
<b>%-VOC Content:</b>	11.9 %
<b>CARB VOC Category/Standard(%)</b>	Glass Cleaner-Aerosol/12% Dec. 31, 2012 – 10%
<b>OTC Model Rule Category/Standard(%)</b>	Glass Cleaner-Aerosol/12%
<b>US EPA Cons Prod Category/Standard(%)</b>	Glass Cleaner-Aerosol/12%

## SECTION 10 Stability and Reactivity

<b>Reactivity</b>	Product is non-reactive under normal conditions of use.
<b>Chemical Stability:</b>	Product is stable
<b>Possibility of hazardous reactions:</b>	None known

**Conditions to avoid (e.g. static discharge, shock or vibration):**

Heat, fire, sparks, open flames, ignition sources, temperatures above 120°F

**Incompatibilities:**

Avoid contact with strong oxidizers

**Hazardous decomposition products:**

CO, CO<sub>2</sub>, and hydrocarbons.

**Hazardous polymerization:**

Will not occur

## SECTION 11 Toxicological Information

**Likely Routes of Exposure:**

Skin or eye contact and inhalation

**Symptoms:**

Not Available.

**Delayed and Immediate Effects:**

Not Available.

**Chronic Effects:**

Not Available.

**Toxicity Measures:**

Not Available.

**NTP Carcinogen:**

No

**IARC Carcinogen:**

No

**OSHA Carcinogen:**

No

## SECTION 12 Ecological Information

**Ecotoxicity:**

Not toxic to aquatic systems.

**Persistence and Degradability**

Not Available.

**Bioaccumulation Potential:**

Not Available.

**Mobility in Soil:**

Not Available.

**Other Adverse Effects:**

Not Available.

## SECTION 13 Disposal Considerations

**Storage and Disposal**

Keep out of reach of children. Do not store near heat, sparks, or open flames. Do not expose to temperatures above 120°F as container may vent, rupture or burst. Do not puncture or incinerate container. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible materials. Store in accordance with NFPA 30B for Level 1 Aerosols.

**Waste Disposal Method:**

Before offering for recycling, empty the container by using the product according to the label. If recycling is not available, wrap the container and

discard in the trash. Dispose of unused product in accordance with regulations.

## SECTION 14

### Transport Information

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

<b>U.S. DOT</b>	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.2
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity or consumer commodity
	Environmental Hazards:	No
	Transport in Bulk:	Not Applicable.
	Special Precautions:	ERG#126

<b>IMO/IMDG</b>	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.2
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity
	Environmental Hazards:	No
	Transport in Bulk:	Not Applicable
	Special Precautions:	EmS F-D, S-U

<b>ICAO/IATA</b>	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols, non-flammable
	Hazard Class:	2.2
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity or reclassified to ID8000
	Environmental Hazards:	No
	Transport in Bulk:	Not Applicable
	Special Precautions:	None

<b>Canada (TDG)</b>	UN/ID Number:	UN1950
	Proper shipping name:	Aerosols
	Hazard class:	2.2
	Packing Group:	None
	Exceptions:	May be shipped as a limited quantity
	Environmental Hazards:	No
	Transport in Bulk:	Not Applicable
	Special Precautions:	ERG#126

## SECTION 15 Regulatory Information

### Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986:

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

## SECTION 16 Other Information

We believe all information given is accurate. It is offered in good faith but without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

### **ABBREVIATIONS:**

NG="NOT GIVEN"

<="LESS THAN"

ND = Not Determined

BT="BETWEEN"

>="GREATER THAN"

NA = Not Applicable