



ZEP Manufacturing Company
 Acuity Specialty Products Group, Inc.
 P.O. Box 2015
 Atlanta, GA 30301
 1-877-I-BUY-ZEP (428-9937)
 www.zep.com

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP GLASS CLEANER
Product Use Cleaner.
Product Code 0019
Date of issue 07/21/05 **Supersedes** 12/13/04

Emergency Telephone Numbers For MSDS Information:
 Acuity Specialty Products Group, Inc.
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
 INFOTRAC:
(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency
 CHEMTREC:
(800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 07/21/05

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ACETONE; dimethyl ketone	67-64-1	1 - 10	ACGIH TLV / OSHA PEL (United States). TWA: 750 ppm 8 hour(s). ACGIH / OSHA (United States). STEL: 1000 ppm 15 minute(s).
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	1 - 10	ACGIH TLV / OSHA PEL (United States). TWA: 1000 ppm 8 hour(s).
HYDROCARBON PROPELLANT; blend of propane, isobutane & n-butane	75-28-5; 74-98-6; 106-97-8	1 - 10	ACGIH TLV / OSHA PEL (United States). Notes: Propane TWA: 1000 ppm 8 hour(s). OSHA PEL / ACGIH TLV (United States). Notes: n-Butane TWA: 800 ppm 8 hour(s).
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 5	ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s). ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Eye contact. Inhalation.

Skin Hazardous in case of skin contact (irritant). May cause slight transient irritation.

Eyes Hazardous in case of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Hazardous in case of inhalation. Avoid inhalation of vapors and spray mist. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system depression.

Ingestion May be harmful if swallowed. Can cause gastrointestinal disturbances.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

HMIS

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	B

Carcinogenic Effects

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects

Can cause central nervous system depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. The substance may be toxic to kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage. Prolonged or repeated contact may dry skin and cause irritation.

See Toxicological Information (section 11)

Section 4. First Aid Measures**Eye Contact**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Skin Contact

In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures**Flash Point**

Not determined.

Flammable Limits Not determined.

Flammability

Not considered to be flammable. (CSMA)

Fire Hazard

CONTENTS UNDER PRESSURE. Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.

Fire-Fighting Procedures

Use DRY chemicals, CO₂, water spray or foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.

**Section 6. Accidental Release Measures****Spill Clean up**

Large spills are unlikely due to packaging.

Section 7. Handling and Storage**Handling**

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or spray mists. Use with adequate ventilation. Wash contaminated clothing before reusing. Wash thoroughly after handling.

Storage

CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Store below 120°F. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)****Eyes**

Safety glasses.

Body

For prolonged or repeated handling, use gloves. Recommended: Rubber gloves. Nitrile gloves. Neoprene gloves.

**Respiratory**

Use with adequate ventilation. Good general ventilation should be sufficient to control airborne levels.

Section 9. Physical and Chemical Properties**Physical State**

Liquid. (Foam. Hazy liquid.)

Color Colorless.

pH

Not determined.

Odor Pleasant.

Boiling Point

96.1°C (205°F)

Vapor Pressure Not determined.

Specific Gravity

0.98 (Water = 1)

Vapor Density Not determined.

Solubility

Easily soluble in cold water.

Evaporation Rate 1 compared to Water

VOC (Consumer) 116.47 (g/l). 0.97 lbs/gal 11.93%

Section 10. Stability and Reactivity**Stability and Reactivity**

The product is stable.

Incompatibility

Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Carbon Dioxide, Carbon Monoxide and other Organic chemicals..

Section 11. Toxicological Information**Toxicity to Animals****Acetone:**

ORAL (LD50): Acute: 9750 mg/kg [Mouse].
DERMAL (LD50): Acute: 20000 mg/kg [Rabbit].
VAPOR (LC50): Acute: 16000 ppm 4 hour(s) [Rat].

Ethanol:

ORAL (LD50): Acute: 7060 mg/kg [Rat].

Isopropyl Alcohol:

ORAL (LD50): Acute: 4700 mg/kg [Rat].
DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].
VAPOR (LC50): Acute: 22500 ppm 8 hour(s) [Rat (Male)]. 19000 ppm 8 hour(s) [Rat (Female)].

Section 12. Ecological Information**Ecotoxicity** Not available.**Biodegradable/OECD** Not available.**Section 13. Disposal Considerations****Waste Information** Waste must be disposed of in accordance with federal, **Waste Stream** Non-hazardous waste state and local environmental control regulations.**Consult your local or regional authorities.****Section 14. Transport Information****Proper shipping name** Consumer Commodity**DOT Classification** ORM-D**UN number** Not regulated.**NOTE:** DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.**Section 15. Regulatory Information****U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA inventory.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.