



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 40
Product Use Aerosol Glass Cleaner
Product Code 0144
Date of issue 06/28/05 **Supersedes** 04/15/03

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: 06/28/05

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
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	10 - 20	ACGIH TLV / OSHA PEL (United States). TWA: 1000 ppm 8 hour(s).
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	< 5	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s).
HYDROCARBON PROPELLANT; blend of propane, isobutane & n-butane	75-28-5; 74-98-6; 106-97-8	5 - 15	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).

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Absorbed through skin. Inhalation.

Skin Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes Hazardous in case of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately.

Inhalation Slightly hazardous in case of inhalation (lung irritant). Over-exposure by inhalation may cause respiratory irritation. Prolonged exposure may cause narcotic effect. Medical Conditions Aggravated by Overexposure: Respiratory

Ingestion No data on acute toxicity of the product when ingested. Unlikely in this form.

HMIS

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	A

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.

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

Chronic Effects Prolonged or repeated contact may dry skin and cause irritation. May cause headache, nausea or weakness in case of long term exposure. The substance may be toxic to blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.
 See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If symptoms persist, seek immediate 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	Closed cup: 28.3°C (83°F) (Tagliabue)	Flammable Limits	Not applicable.
Flammability	Non-flammable. (CSMA)		
Fire Hazard	Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.		
Fire-Fighting Procedures	Use DRY chemicals, CO ₂ , 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.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or spray mists. Do not ingest. Use only with adequate ventilation. Wash contaminated clothing before reusing. Wash thoroughly after handling.
Storage	Keep container in a cool, well-ventilated area. Protect from temperature extremes and direct sunlight. Do not store above 49°C (120°F). Do not puncture or incinerate.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Recommended: Safety glasses.	
Body	For prolonged or repeated handling, use gloves.	
Respiratory	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.	

Section 9. Physical and Chemical Properties

Physical State	Aerosol. (Liquid fill)	Color	Colorless.
pH	10.5-11.0	Odor	Alcohol like. (Slight.)
Boiling Point	93°C (199.4°F)	Vapor Pressure	Not determined.
Specific Gravity	1.1 (Water = 1)	Vapor Density	Not determined.
Solubility	Easily soluble in cold water.	Evaporation Rate	1 compared to water
		VOC (Consumer)	297 (g/l) 27.4%

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with oxidizing agents.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon Dioxide, Carbon Monoxide and other organic materials.

Section 11. Toxicological Information

Toxicity to Animals	Ethanol:
	ORAL (LD50): Acute: 7060 mg/kg [Rat].
	Ethylene Glycol Monobutyl Ether:
	ORAL (LD50): Acute: 1746 mg/kg [Rat].
	DERMAL (LD50): Acute: 680 mg/kg [Rabbit].
	VAPOR (LC50): Acute: 450 ppm 4 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, state and local environmental control regulations. **Waste Stream** Code: - (None.)
Classification: - (Non-hazardous waste)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Not applicable.

DOT Classification ORM-D

UN number Not applicable.

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:

Ethylene Glycol Monobutyl Ether (Glycol Ethers)

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

Clean air act (CAA) 112 regulated toxic substances: Ethylene Glycol Monobutyl Ether (Glycol Ethers)

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.