



**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	<b>ACGIH TLV / OSHA PEL (United States).</b> TWA: 1000 ppm 8 hour(s).
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	< 5	<b>ACGIH TLV (United States).</b> TWA: 20 ppm 8 hour(s). <b>OSHA PEL (United States). Skin</b> 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	<b>ACGIH TLV / OSHA PEL (United States).</b> <b>Notes: Propane</b> TWA: 1000 ppm 8 hour(s). <b>OSHA PEL / ACGIH TLV (United States).</b> <b>Notes: n-Butane</b> 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**

<b>Eye Contact</b>	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. If symptoms persist, seek immediate medical attention.
<b>Ingestion</b>	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**

<b>Flash Point</b>	Closed cup: 28.3°C (83°F) (Tagliabue)	<b>Flammable Limits</b>	Not applicable.
<b>Flammability</b>	Non-flammable. (CSMA)		
<b>Fire Hazard</b>	Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.		
<b>Fire-Fighting Procedures</b>	Use DRY chemicals, CO <sub>2</sub> , water spray or foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		



**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Large spills are unlikely due to packaging.
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**Section 7. Handling and Storage**

<b>Handling</b>	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.
<b>Storage</b>	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**

	<b>Personal Protection</b>	<b>Protective Clothing (Pictograms)</b>
<b>Eyes</b>	Recommended: Safety glasses.	
<b>Body</b>	For prolonged or repeated handling, use gloves.	
<b>Respiratory</b>	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**

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

**Section 10. Stability and Reactivity**

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

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>Ethanol:</b>
	ORAL (LD50): Acute: 7060 mg/kg [Rat].
	<b>Ethylene Glycol Monobutyl Ether:</b>
	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**

<b>Ecotoxicity</b>	Not available.
<b>Biodegradable/OECD</b>	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.*