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Superior Solutions 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 Aerosol Glass Cleaner
Product code 0019
Date of issue 05/14/07 **Supersedes** 07/21/05

Emergency Telephone Numbers **For MSDS Information:**
Compliance Services 1-877-I-BUY-ZEP (428-9937)

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

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

Prepared By

Compliance Services
1420 Seaboard Industrial Blvd.
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Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	1 - 10	ACGIH TLV / OSHA PEL (United States). TWA: 1000 ppm 8 hour(s).
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).
HYDROCARBON PROPELLANT; blend of propane & isobutane	75-28-5; 74-98-6	1 - 10	ACGIH TLV / OSHA PEL (United States). Notes: Propane TWA: 1000 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Eye contact. Inhalation.

Skin May cause slight transient irritation. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes 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 Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

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.

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

Chronic Effects Repeated or prolonged exposure to the substance can produce damage to central nervous system, kidneys, liver. Prolonged or repeated contact may dry skin and cause irritation.

See Toxicological Information (section 11)

HMIS

Health	1
Fire Hazard	1
Reactivity	0
Personal Protection	B

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. 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. 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 chemical, CO ₂ , water spray (fog) 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, spray or 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 (49°C). 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 worker exposure to airborne contaminants.	

Section 9. Physical and Chemical Properties

Physical State	Hazy liquid. Foam.	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 the following materials: cold water.	Evaporation Rate	1 compared with Water
		VOC (Consumer)	116.5 (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: ^[25,45,50,70 ORAL (LD50):□Acute: 9750 mg/kg [Mouse]. DERMAL (LD50):□Acute: 20000 mg/kg [Rabbit]. VAPOR (LC50):□Acute: 16000 ppm 4 hour(s) [Rat]. Ethanol: ^[25,45,50,70 ORAL (LD50):□Acute: 7060 mg/kg [Rat].
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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	Non-hazardous waste
Consult your local or regional authorities.			

Section 14. Transport Information

Proper shipping name	Consumer commodity	UN number	Not regulated.
DOT Classification	ORM-D		

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.

TDG Classification	ORM-D
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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.

State Regulations

California prop. 65: No products were found.

WHMIS (Canada)

Class A: Compressed gas.

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class D-2B: Material causing other toxic effects (Toxic).

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.