



ZEP Manufacturing Company
 Acuity Specialty Products Group, Inc.
 P.O. Box 2015
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 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 BRAKE WASH
Product Use Aerosol Industrial Degreaser
Product Code 0287
Date of issue 08/30/07 **Supersedes** 12/30/04
Emergency Telephone Numbers For MSDS Information:
 Acuity Specialty Products Group, Inc.
 Compliance Services 1-877-I-BUY-ZEP (428-9937)

Downloaded 9/27/2007

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: 08/30/07

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
HEPTANE; n-heptane	142-82-5	80 - 90	ACGIH/OSHA (United States). TWA: 400 ppm 8 hour(s). ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s).
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	5 - 15	ACGIH TLV / OSHA PEL (United States). TWA: 1000 ppm 8 hour(s). OSHA/ACGIH (United States). TWA: 200 ppm 8 hour(s).
METHANOL; methyl alcohol; wood alcohol; columbia spirits	67-56-1	<5	OSHA /ACGIH (United States). STEL: 250 ppm 15 minute(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Inhalation. Absorbed through skin.

- Skin** Causes skin irritation. Skin inflammation is characterized by itching, scaling, or reddening. Product may be dermally absorbed. Defatting properties, may aggravate an existing dermatitis.
- Eyes** Causes eye irritation. 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 depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Medical Conditions Aggravated by Overexposure: Respiratory.
- Ingestion** Harmful if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage. Vomiting increases risk of chemical pneumonia.

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 kidneys, lungs, liver, heart, brain, peripheral nervous system, eyes, central nervous system (CNS), pancreas. Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Prolonged or repeated contact may dry skin and cause irritation.

See Toxicological Information (section 11)

HMIS

Health	1
Fire Hazard	4
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.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. 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	Aspiration hazard if swallowed- can enter lungs and cause damage. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. NEVER give an unconscious person anything to ingest. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: <-18°C (<0°F) (Tagliabue.)	Flammable Limits LOWER: 1.2% UPPER: 6.7%
Flammability	Extremely flammable. (CSMA) Aerosol that may flashback.	
Fire Hazard	FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions or when heated.	
Fire-Fighting Procedures	Use dry chemical or CO ₂ . Wear special protective clothing and positive pressure, self-contained breathing apparatus. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.	

**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	Extremely flammable liquid and vapor. Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Do not ingest. Wash thoroughly after handling. Wash contaminated clothing before reusing.
Storage	CONTENTS UNDER PRESSURE. Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Do not store above 120°F (49°C). Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

Personal Protection		Protective Clothing (Pictograms)
Eyes	Safety glasses with side shields.	
Body	Chemical resistant gloves. (Viton, Nitrile, Neoprene)	
Respiratory	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapor cartridges.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Aerosol.)	Color	Clear
pH	Not applicable.	Odor	Hydrocarbon. (Slight.)
Boiling Point	93°C (199.4°F)	Vapor Pressure	17.9 kPa (134 mmHg) (at 20°C)
Specific Gravity	0.75 (Water = 1)	Vapor Density	>1 (Air = 1)
Solubility	Insoluble in cold water, hot water.	Evaporation Rate	Not determined.
		VOC (Consumer)	95.3% 5.97 (lb/gal) 715 (g/l)

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 materials.

Section 11. Toxicological Information

Toxicity to Animals	Heptane:
	ORAL (LD50): Acute: 15000 mg/kg [Mouse].
	GAS (LC50): Acute: 18295 ppm 2 hour(s) [Mouse].
	Ethanol:
	ORAL (LD50): Acute: 7060 mg/kg [Rat].
	Methanol:
	ORAL (LD50): Acute: 5628 mg/kg [Rat].

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: D001
Classification: - (Hazardous waste.)
Origin: - (RCRA waste.)

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:
Methanol
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 regulated toxic substances: Methanol
All Components of this product are listed or exempt from listing on TSCA inventory.

State Regulations

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Toluene

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.*