



ZEP Manufacturing Company
Acuity Specialty Products Group, Inc.
P.O. Box 2015
Atlanta, GA 30301
1-877-1-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 TWISTER**
Product Use **Aerosol Penetrant Spray**
Product Code **0065**
Date of issue **01/07/05** **Supersedes 09/04/97**

Emergency For MSDS Information:

Telephone **Acuity Specialty Products Group, Inc.**
Numbers **Compliance Services 1-877-1-BUY-ZEP**

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: 01/07/05

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
HEAVY AROMATIC NAPHTHA; solvent naphtha (petroleum); heavy aromatics	64742-94-5	25 - 35	OSHA PEL / VPEL / ACGIH TLV (United States). TWA: 10 ppm 8 hour(s). OSHA VPEL / ACGIH TLV (United States). STEL: 15 ppm 15 minute(s).
MINERAL SEAL OIL; mineral oil; petrolatum	64741-77-1	10 - 20	OSHA PEL (United States). : 5 mg/m ³ 8 hour(s). Form: Mist ACGIH TLV (United States). : 5 ppm 8 hour(s). Form: Mist TWA: 100 ppm
HYDROTREATED LIGHT PETROLEUM DISTILLATES; paraffinic, naphthenic solvent	64742-47-8	10 - 20	
XYLENE; dimethyl benzene; xylol	1330-20-7	10 - 20	OSHA (United States). TWA: 100 ppm ACGIH (United States). STEL: 150 ppm
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 10	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** Dermal contact. Eye contact. Inhalation.

Skin Hazardous in case of skin contact (irritant). Direct contact may cause irritation and redness. Prolonged or repeated contact may dry skin and cause irritation.

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.

Inhalation Hazardous in case of inhalation. Avoid breathing vapors or spray mists. 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.

Ingestion Harmful if swallowed. Aspiration hazard if swallowed- can enter lungs and cause damage.

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 The substance may be toxic to blood, kidneys, lungs, liver, heart, spleen, adrenal, central nervous system (CNS), ears, eye, lens or cornea, nose/sinuses, testes. Repeated or prolonged exposure to the substance can produce target organs damage. Can cause central nervous system depression. Prolonged or repeated contact may dry skin and cause irritation.

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Reactivity	0
Personal Protection	X

See Toxicological Information (section 11)

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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.
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 anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not available.	Flammable Limits Not determined.
Flammability	FLAMMABLE. (CSMA)	
Fire Hazard	CONTENTS UNDER PRESSURE. Container explosion may occur under fire conditions or when heated.	
Fire-Fighting Procedures	Dry chemical, carbon dioxide, foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus. Cool closed containers exposed to fire with water.	

**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	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. Wash thoroughly after handling. Wash contaminated clothing before reusing. Watch for accumulation in low confined areas.
Storage	CONTENTS UNDER PRESSURE. Store and use away from heat, sparks, open flame, or any other ignition source. Keep container in a cool, well-ventilated area. Do not store above 49°C (120.2°F). 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.	
Body	Neoprene gloves. Nitrile gloves. Rubber gloves.	
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.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Aerosol.)	Color Amber.
pH	Not applicable.	Odor Solvent-like.
Boiling Point	Not determined.	Vapor Pressure Not determined.
Specific Gravity	0.8625 (Water = 1)	Vapor Density Not determined.
Solubility	Insoluble in cold water, hot water.	Evaporation Rate Not determined.
		VOC (Consumer) 429.17 (g/l). 3.58 lbs/gal
		49.99%

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	Hydrotreated Light Petroleum Distillates :	
	ORAL (LD50):	Acute: >5000 mg/kg [Rat].
	DERMAL (LD50):	Acute: >2000 mg/kg [Rabbit].
	Xylene:	
	ORAL (LD50):	Acute: 3500 mg/kg [Rat].
	VAPOR (LC50):	Acute: 6700 ppm 4 hour(s) [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 Waste must be disposed of in accordance with federal, Waste Stream Code: D001
Information state and local environmental control regulations. 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:

Naphthalene

Xylene

Clean Water Act (CWA) 311: Xylene

Clean air act (CAA) 112 regulated toxic substances: Xylene

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.