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 ORANGE GEL DEGREASER**
Product Use Aerosol Industrial Degreaser
Product Code **0001**
Date of issue **04/07/05** **Supersedes 08/22/03**

Emergency Telephone Numbers

For MSDS Information:
Acuity Specialy Products Group, Inc.
Compliance Services 1-877-I-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: 04/07/05

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
D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-	5989-27-5	65 - 75	Not established
HYDROCARBON PROPELLANT; blend of propane, isobutane & n-butane	75-28-5; 74-98-6; 106-97-8	15 - 25	**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

HMIS

Health	1
Fire Hazard	3
Reactivity	0
Personal Protection	B

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.

Skin Hazardous in case of skin contact (irritant, sensitizer). Direct contact may cause irritation and redness. May cause allergic reactions to certain individuals.

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.

Ingestion May be 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 Prolonged or repeated contact may dry skin and cause irritation.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. 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. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not determined. **Flammable Limits** Not available.

Flammability Extremely flammable. (CSMA)

Fire Hazard CONTENTS UNDER PRESSURE. 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.

Section 7. Handling and Storage

Handling Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Do not ingest. Wash contaminated clothing before reusing. Wash thoroughly after handling.

Storage Avoid all possible sources of ignition (spark or flame). Keep away from heat and direct sunlight. 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

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.

Protective Clothing (Pictograms)

Section 9. Physical and Chemical Properties

Physical State Liquid. (Aerosol.)

pH Not applicable.

Boiling Point 76.7°C (170.1°F)

Specific Gravity 0.861 (Water = 1)

Solubility Insoluble in cold water, hot water.

Color Clear. Amber.

Odor Citrus

Vapor Pressure Not determined.

Vapor Density Not determined.

Evaporation Rate Not determined.

VOC (Consumer) 783.83 (g/l). 6.54 lbs/gal 91.30%

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 **d-Limonene**:

ORAL (LD50): Acute: >5000 mg/kg [Rat].

DERMAL (LD50): Acute: >5000 mg/kg [Rabbit].

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:
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.

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.