



**ZEP MANUFACTURING COMPANY**  
 Acuity Specialty Products Group, Inc.  
 P.O. BOX 2015  
 ATLANTA, GA 30301  
 1-877-1-BUY-ZEP

**Material Safety Data Sheet**  
 and Safe Handling and Disposal Information

**Section 1. Chemical Product and Company Identification**

**Product name** ZEP BIG ORANGE (AEROSOL)  
**Product Use** Aerosol Solvent Degreaser  
**Product Code** 0114  
**Date of issue** 08/22/03 **Supersedes** 03/02/01  
 This product is not a registered pesticide.

**Emergency Telephone Numbers** **For MSDS Information:**  
 Acuity Specialty Products Group, Inc.  
 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

**Prepared by** Compliance Services Group  
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00198 B310  
 NOVEN PHARMACEUTICALS  
 11960 SW 144TH ST  
 MIAMI FL 33186

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**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	70-80	Not available.
BLEND OF ISOBUTANE & PROPANE	74-98-6; 75-28-5	10-20	OSHA PEL (United States). TWA: 1000 ppm

**Section 3. Hazards Identification**

**Acute Effects** **Routes of Entry** Eye contact. Skin contact  
**Skin** Slightly hazardous in case of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. 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** No data on acute toxicity of the product when inhaled.  
**Ingestion** Unlikely in this form.

HMIS	
Health	1
Physical	4
Reactivity	0
Personal Protection	A

**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** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.  
**Skin Contact** Wash with soap and water. Cover the irritated skin with an emollient. 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 applicable. **Flammable Limits** Not applicable.  
**Flammability** Extremely flammable. (CSMA)  
**Fire Hazard** Container explosion may occur under fire conditions or when heated. Cool closed containers exposed to fire with water.



**Fire-Fighting Procedures** Use DRY chemicals, CO2, 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. Wash contaminated clothing before reusing.

**Storage** 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 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)
<b>Eyes</b>	Safety glasses.	
<b>Body</b>	Gloves.	
<b>Respiratory</b>	Use with adequate ventilation.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid. (Aerosol.)	<b>Color</b> Clear.
<b>pH</b>	Not applicable.	<b>Odor</b> Citrus
<b>Boiling Point</b>	Not determined.	<b>Vapor Pressure</b> 40 P.S.I.
<b>Specific Gravity</b>	0.859 (Water = 1)	<b>Vapor Density</b> Not determined.
<b>Solubility</b>	Emulsifies in water.	<b>Evaporation Rate</b> Not determined.
		<b>VOC (Consumer)</b> 94.9%

**Section 10. Stability and Reactivity**

**Stability and Reactivity** The product is stable.

**Incompatibility** Avoid contact with strong oxidizers, excessive heat, sparks or open flame. Incompatible with some strong acids.

**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: 5600 mg/kg [Mouse]. 4400 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.

**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.

**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.*