



Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name **BIG ORANGE-E**
Product use Industrial Solvent Degreaser
Product code **0485**
Date of issue **05/18/07** **Supersedes 08/22/03**

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

Printing date: 07/31/08

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Section 2. Composition, Information on Ingredients

| Name of hazardous ingredients | CAS # | % by Weight | Exposure Limits |
|---|-------------|-------------|-----------------|
| PROPRIETARY, BIODEGRADABLE, HIGH-FLASH SOLVENT | Proprietary | 50 - 60 | Not established |
| D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)- | 5989-27-5 | 30 - 40 | Not established |
| NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy | 9016-45-9 | 1 - 10 | Not established |

Section 3. Hazards Identification

Acute Effects

Routes of Entry Dermal contact. Eye contact.

Skin May cause skin irritation. May cause allergic reactions in certain individuals. Prolonged or repeated contact may dry skin and cause irritation.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion No data on acute toxicity of the product when ingested.

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)

HMIS

| | |
|---------------------|---|
| Health | 1 |
| Fire Hazard | 2 |
| Reactivity | 0 |
| Personal Protection | B |

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 immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If irritation persists, 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 Closed cup: 64.444°C (148°F). **Flammable Limits** Not determined.
 (Tagliabue.)

Flammability Combustible.

Fire hazard Cool closed containers exposed to fire with water.

Fire-fighting procedures Use dry chemical or CO₂. Fire-fighters should wear appropriate protective equipment.



Section 6. Accidental Release Measures

Spill Clean up Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Keep away from heat, sparks and flame. Keep container closed. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wash contaminated clothing before reusing. Wash thoroughly after handling. Observe label precautions.

Storage Keep away from sources of ignition - No smoking. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Store between the following temperatures: 40°F - 120°F (4.4°C - 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 Provide adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State Liquid.

Color Clear. Orange.

pH 7.0-8.0

Odor Citrus (Strong.)

Boiling Point 170°C (338°F)

Vapor Pressure 0.1 kPa (1 mm Hg) (at 20°C)

Specific Gravity 0.81 (Water = 1)

Vapor Density Not determined.

Solubility Emulsifies in water.

Evaporation Rate Not determined.

VOC (Consumer) 297.5 (g/l). (36.9%, 2.48 lb./gal.)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Avoid contact with strong oxidizers, excessive heat, sparks or open flame. Reactive with acids.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO₂)

Section 11. Toxicological Information

Toxicity to Animals **Proprietary, biodegradable, high-flash solvent:**^[25,45,50,70
DERMAL (LD50): □ Acute: >2000 mg/kg [Rabbit].

d-Limonene:^[25,45,50,70

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

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

Nonylphenoxypoly(Ethyleneoxy)Ethanol:^[25,45,50,70

ORAL (LD50): □ Acute: 3310 mg/kg [Rat].

DERMAL (LD50): □ Acute: 2000 mg/kg [Rabbit].

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** Non-hazardous waste
Information state and local environmental control regulations.

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name None.

DOT Classification Not a DOT controlled material (United States).

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.

TDG Classification Not a TDG-controlled material.

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

WARNING: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: 1,4-Dioxane, Acetaldehyde, Formaldehyde, Ethylene Oxide

WHMIS (Canada)

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

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.