



ENFORCER Products  
 A Division of Acuity Specialty Products  
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# Material Safety Data Sheet and Safe Handling and Disposal Information

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

**Product name** Industrial Purple Cleaner & Degreaser Concentrate  
**Product Code** ZU0856  
**Date of issue** 10/04/07 **Supersedes**

**Emergency Telephone Numbers** For a Medical Emergency:  
 INFOTRAC  
 (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:  
 CHEMTREC  
 (800) 424-9300 (Toll Free - Calls Recorded)

**Printing Date:**

**Prepared by** Compliance Services Group  
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 Atlanta, GA 30318

**Section 2. Composition, Information on Ingredients**

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
SODIUM HYDROXIDE; caustic soda; soda lye	1310-73-2	1 - 10	ACGIH / OSHA (United States). CEIL: 2 mg/m <sup>3</sup>
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 10	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin TWA: 50 ppm 8 hour(s).

**Section 3. Hazards Identification**

**Acute Effects** **Routes of Entry** Dermal contact. Eye contact. Inhalation. Ingestion.  
**Skin** Skin contact may produce burns. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
**Eyes** Causes eye burns. Direct contact with the eyes can cause irreversible damage including blindness.  
**Inhalation** Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Can cause central nervous system depression.  
**Ingestion** May be fatal if swallowed. May cause burns to mouth, throat and stomach.

HMIS	
<b>Health</b>	<b>3</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>D</b>

**Carcinogenic Effects** Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

**Chronic Effects** Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Repeated or prolonged exposure to the substance can produce damage to blood, kidneys, liver, upper respiratory tract, central nervous system (CNS). Repeated or prolonged contact may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

See Toxicological Information (section 11)

**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 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. Thoroughly clean shoes before reuse. Get medical attention immediately.  
**Inhalation** If excessive quantities inhaled, remove to fresh air. If symptoms persist, seek immediate 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**

<b>Flash Point</b>	Not applicable.	<b>Flammable Limits</b>	Not applicable.
<b>Flammability</b>	Not applicable.		
<b>Fire Hazard</b>	May emit toxic fumes under fire conditions.		
<b>Fire-Fighting Procedures</b>	Use DRY chemicals, CO <sub>2</sub> , water spray or foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Put on appropriate personal protective equipment (see Section 8). Absorb with an inert material and place in an appropriate waste disposal container. To clean the floor and all objects contaminated by this material, use detergent. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
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**Section 7. Handling and Storage**

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Wash thoroughly after handling. Wash contaminated clothing before reusing. Do not reuse product container.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 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)
<b>Eyes</b>	Splash goggles. Face shield.	
<b>Body</b>	Wear appropriate protective clothing to prevent skin contact. Recommended: Neoprene gloves. Nitrile gloves. Latex gloves. Chemical resistant apron.	
<b>Respiratory</b>	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid. (Clear to slightly hazy.)	<b>Color</b>	Purple.
<b>pH</b>	13.0-14.0	<b>Odor</b>	Ethereal.
<b>Boiling Point</b>	98.9°C (210°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.06 (Water = 1)	<b>Vapor Density</b>	>1 (Air = 1)
<b>Solubility</b>	Easily soluble in cold water, hot water.	<b>Evaporation Rate</b>	>1 compared to Water
		<b>VOC (Consumer)</b>	3.98%    0.35 lbs/gal    42 (g/l).

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive with oxidizing agents, metals, acids.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>Sodium Hydroxide:</b>	
	ORAL (LD50):	Acute: 500 mg/kg [Rat].
	DERMAL (LD50):	Acute: >2000 mg/kg [Rabbit].
	<b>Ethylene Glycol Monobutyl Ether:</b>	
	ORAL (LD50):	Acute: 1746 mg/kg [Rat].
	DERMAL (LD50):	Acute: 680 mg/kg [Rabbit].
	VAPOR (LC50):	Acute: 450 ppm 4 hour(s) [Rat (Female)].

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
<b>Biodegradable/OECD</b>	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: - D002  
Classification: - (Hazardous waste.)  
Origin: - (RCRA waste.)

**Consult your local or regional authorities.**

**Section 14. Transport Information**

**Proper shipping name** Corrosive Liquid, Basic, Inorganic, N.O.S. (Sodium Hydroxide)

**DOT Classification** Class 8: Corrosive liquid.

**UN number** 3266

**TDG Classification** TDG Class 8: Corrosive liquid.

**Section 15. Regulatory Information**

**U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:

Ethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 311: Sodium Hydroxide (RQ 1,000 lbs)

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** California prop. 65: No products were found.

**WHMIS (Canada)** Class D-1B: Material causing immediate and serious toxic effects (TOXIC).

Class D-2B: Material causing other toxic effects (TOXIC).

Class E: Corrosive liquid.

**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.*