



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** Heavy-Duty Floor Stripper Concentrate  
**Product Code** ZU1071  
**Date of issue** 10/09/07 **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:**

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## Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	5 - 15	<b>ACGIH TLV (United States).</b> TWA: 20 ppm 8 hour(s). <b>OSHA PEL (United States). Skin</b> TWA: 50 ppm 8 hour(s).
MONOETHANOLAMINE; 2-aminoethanol; MEA	141-43-5	5 - 15	<b>OSHA PEL / ACGIH TLV (United States).</b> TWA: 3 ppm 8 hour(s). <b>OSHA /ACGIH (United States).</b> STEL: 6 ppm 15 minute(s).
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	1 - 5	<b>ACGIH TLV (United States).</b> TWA: 200 ppm 8 hour(s). <b>OSHA PEL (United States).</b> TWA: 400 ppm 8 hour(s). <b>ACGIH/OSHA (United States).</b> STEL: 400 ppm 15 minute(s).

## Section 3. Hazards Identification

**Acute Effects** **Routes of Entry** Dermal contact. Eye contact. Inhalation.  
**Skin** Harmful if absorbed through the skin. Direct contact may cause irritation and redness. Skin inflammation is characterized by itching, scaling, or reddening.  
**Eyes** Causes eye burns. Direct contact with the eyes can cause irreversible damage.  
**Inhalation** Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system depression.  
**Ingestion** Harmful if swallowed. Ingestion may cause nausea, weakness and central nervous system effects.

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

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

**See Toxicological Information (section 11)**

HMIS	
<b>Health</b>	<b>2</b>
<b>Fire Hazard</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>C</b>

**Section 4. First Aid Measures**

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.
<b>Inhalation</b>	If inhaled, remove to fresh air. If irritation persists, get medical attention.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

**Section 5. Fire Fighting Measures**

<b>Flash Point</b>	Closed cup: 63.8°C (147°F). (Tagliabue.)	<b>Flammable Limits</b>	Not available.
<b>Flammability</b>	Combustible liquid.		
<b>Fire Hazard</b>	Keep away from heat, sparks and flame. May emit toxic fumes under fire conditions.		
<b>Fire-Fighting Procedures</b>	Use DRY chemicals, CO <sub>2</sub> , water spray or foam. Fire-fighters should wear proper protective equipment. Do not release runoff from fire to sewers or waterways.		

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Eliminate all ignition sources. Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
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**Section 7. Handling and Storage**

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Do not ingest. Keep away from heat, sparks and flame. Apply this product only as specified on the label. Observe label precautions. Do not reuse product container. Wash thoroughly after handling.
<b>Storage</b>	Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Store between 40°F - 120°F (4.4°C - 49°C). Protect from freezing. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

**Section 8. Exposure Controls, Personal Protection**

	<b>Personal Protection</b>	<b>Protective Clothing (Pictograms)</b>
<b>Eyes</b>	Splash goggles.	
<b>Body</b>	Synthetic apron. Protective gloves should be worn during handling. (Rubber gloves. Neoprene gloves. Nitrile gloves.)	
<b>Respiratory</b>	Use with adequate ventilation. Avoid breathing vapors or spray mists. Wear appropriate respirator when ventilation is inadequate.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.	<b>Color</b>	Clear. Colorless.
<b>pH</b>	12.0 - 12.8	<b>Odor</b>	Butyl.
<b>Boiling Point</b>	>100°C (212°F)	<b>Vapor Pressure</b>	1.9 kPa (14.5 mmHg) (at 20°C)
<b>Specific Gravity</b>	1 (Water = 1)	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Easily soluble in cold water, hot water.	<b>Evaporation Rate</b>	Not determined.
		<b>VOC (Consumer)</b>	235 (g/l). 1.96 lb/gal 24.0%

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive with oxidizing agents, 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>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)].
	<b>Monoethanolamine:</b>
	ORAL (LD50): Acute: 1720 mg/kg [Rat].
	DERMAL (LD50): Acute: >1000 mg/kg [Rabbit].
	<b>Isopropyl Alcohol:</b>
	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 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** Not regulated.**DOT Classification** Not a DOT controlled material (United States).**UN number** Not regulated.**TDG Classification** Not a TDG controlled material.**Section 15. Regulatory Information****U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting:

Ethylene Glycol Monobutyl Ether (Glycol Ethers)

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** California prop. 65: No products were found.**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-1B: Material causing immediate and serious toxic effects (TOXIC).  
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.*