



ENFORCER Products  
 A Division of Acuity Specialty Products  
 Group, Inc.  
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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 Cleaner & Degreaser 505  
**Product Code** Z505  
**Date of issue** 06/01/06 **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
SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; water glass	6834-92-0	1 - 5	<b>ACGIH TLV (United States).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Dust
DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic acid	27176-87-0	1 - 5	<b>OSHA PEL (United States).</b> : 15 mg/m <sup>3</sup> Form: Dust <b>ACGIH / OSHA (United States).</b> TWA: 1 mg/m <sup>3</sup> 8 hour(s). <b>ACGIH TLV (United States).</b> STEL: 3 mg/m <sup>3</sup> 15 minute(s).
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 5	<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).

## Section 3. Hazards Identification

**Acute Effects** **Routes of Entry** Dermal contact. Eye contact. Inhalation.  
**Skin** May cause skin irritation. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.  
**Eyes** Causes eye irritation. Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering, and itching.  
**Inhalation** Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.  
**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation and diarrhea.

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

**Chronic Effects** The substance may be toxic to blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist 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. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

**See Toxicological Information (section 11)**

HMIS	
<b>Health</b>	<b>2</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>1</b>
<b>Personal Protection</b>	<b>B</b>

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>Ingestion</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. 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>	Not applicable.		
<b>Fire-Fighting Procedures</b>	Use DRY chemicals, CO <sub>2</sub> , water spray or foam. Fire-fighters should wear proper protective equipment.		

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	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. Do not breathe vapor or mist. Use only with adequate ventilation. Do not ingest. Do not reuse product container. Wash thoroughly after handling.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep out of the reach of children.

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

<b>Eyes</b>	Safety glasses.
<b>Body</b>	Chemical resistant gloves.
<b>Respiratory</b>	A respirator is not needed under normal and intended conditions of product use.

**Protective Clothing (Pictograms)****Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.	<b>Color</b>	Clear. Colorless to light yellow.
<b>pH</b>	12.75- 13.25 [Basic.]	<b>Odor</b>	Lemon like. (Slight.)
<b>Boiling Point</b>	100°C (212°F)	<b>Vapor Pressure</b>	2.3 kPa (17 mmHg) (at 20°C)
<b>Specific Gravity</b>	1.032 (Water = 1)	<b>Vapor Density</b>	>1 (Air = 1)
<b>Solubility</b>	Easily soluble in cold water.	<b>Evaporation Rate</b>	>1 compared to Butyl acetate.
		<b>VOC (Consumer)</b>	36.06 (g/l). 0.30 lbs/gal (3.50%)

**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>Sodium Metasilicate:</b>
	ORAL (LD50): Acute: 2200 mg/kg [Rat].
	<b>Dodecylbenzene sulfonic acid:</b>
	ORAL (LD50): Acute: 2140 mg/kg [Rat].
	<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 established
<b>Biodegradable/OECD</b>	Not established

**Section 13. Disposal Considerations**

<b>Waste Information</b>	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
<b>Waste Stream</b>	Code: D002 Classification: - (Hazardous waste.) Origin: - (RCRA waste.)

Consult your local or regional authorities.

**Section 14. Transport Information**

<b>Proper shipping name</b>	Not regulated.
<b>DOT Classification</b>	Not a DOT controlled material (United States).
<b>UN number</b>	Not regulated.
<b>TDG Classification</b>	Not a TDG controlled material.

**Section 15. Regulatory Information**

<b>U.S. Federal Regulations</b>	SARA 313 toxic chemical notification and release reporting: Ethylene Glycol Monobutyl Ether Clean Water Act (CWA) 311: Dodecylbenzene sulfonic acid (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.
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<b>State Regulations</b>	California prop. 65: No products were found.
<b>WHMIS (Canada)</b>	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.*