



# Material safety data sheet

## Section 1. Product and Company Identification

<b>Product Name</b>	<b>ZUD® HEAVY DUTY CLEANSER (POWDER)</b>	<b>MSDS#</b>	Not available
<b>Product Description</b>	This MSDS applies to the nationally sold formula version of ZUD® Heavy Duty Cleanser. See the California-specific MSDS for the California version of this product.	<b>Validation Date</b>	9/11/2000
<b>Manufacturer</b>	Reckitt Benckiser Inc. 1655 Valley Road Wayne, N.J. 07474	<b>Print Date</b>	1/15/2001
<b>Product Identifier</b>	Not available.	<b>In case of Emergency:</b> Telephone: 800-228-4722	
<b>Item Number</b>	890573	<b>Transportation Emergencies:</b> Chemtrec: 800-424-9300	
<b>Formula Number</b>	Not available.		
<b>UPC Number</b>	62338-00710-06 (6 oz.), 62338-00750-06 (16 oz.)		

## Section 2. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits : TLV/PEL
1) SILICA, CRYSTALLINE	14808-60-7	70-80	TWA: 0.1 (mg/m <sup>3</sup> ) from ACGIH (TLV) Respirable. TWA: 0.3 (mg/m <sup>3</sup> ) from OSHA (PEL) Respirable.
2) OXALIC ACID	144-62-7	5-10	TWA: 1 STEL: 2 (mg/m <sup>3</sup> ) from ACGIH (TLV) TWA: 1 (mg/m <sup>3</sup> ) from OSHA (PEL)
3) PUMICE	1332-09-8	10-20	TWA: 15 (mg/m <sup>3</sup> ) from ACGIH (TLV) Total. TWA: 10 (mg/m <sup>3</sup> ) from OSHA (PEL) Total.

## Section 3. Hazards Identification

**Emergency Overview** WARNING: HARMFUL IF SWALLOWED. Contains oxalic acid. Irritating to eyes. Do not mix with chlorine type bleach or other household chemicals. KEEP OUT OF REACH OF CHILDREN.

## Section 4. First Aid Measures

<b>Eye Contact</b>	In case of eye contact, immediately rinse eyes with water, remove any contact lenses and continue to rinse eyes with plenty of water for at least 15 minutes. If irritation occurs or persists, get medical attention.
<b>Skin Contact</b>	In case of skin contact, wash skin thoroughly with soap and water. If irritation persists, consult a physician.
<b>Inhalation</b>	Remove to fresh air. If irritation persists or there is any trouble breathing, get immediate medical attention.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Rinse mouth and give a glass of water to drink. Contact a poison control center or physician immediately.

## Section 5. Fire and Explosion Data

<b>Flammability</b>	Not flammable. See Section 14 for any Shipping Classifications.
<b>Flash Point</b>	Not applicable.
<b>Explosive Limits in Air</b>	Not applicable.
<b>Products of Combustion</b>	Not available.

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<b>Fire and Explosion Hazards</b>	None known.
<b>Fire Fighting Media and Instructions</b>	Not a fire hazard. Use extinguishing media suitable for surrounding materials.
<b>Special Fire Fighting Instructions</b>	Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire.

**Section 6. Accidental Release Measures**

<b>Accidental Spill</b>	Small spill: Carefully sweep up raising a minimum of dust and discard into a household waste container for disposal.  Large spill: Contain and collect product with a minimum of dust and retain for evaluation. Dispose of according to local, state and federal regulations.
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**Section 7. Handling and Storage**

<b>Handling and Storage</b>	WARNING: Irritating to eyes. Harmful if swallowed. Contains oxalic acid. Do not mix with chlorine type bleach or other household chemicals.  Store in original container in an upright position in a cool, dry area inaccessible to children and pets. <b>KEEP OUT OF REACH OF CHILDREN</b>
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**Section 8. Exposure Controls/Personal Protection**

<b>Ventilation Requirements</b>	No specific controls are needed.
<b>Eye Protection</b>	Avoid contact with eyes. Emergency responders should wear full eye and face protection.
<b>Skin Protection</b>	Avoid skin contact. Emergency responders should wear impermeable gloves.
<b>Respiratory Protection</b>	Avoid breathing dust. Emergency responders should wear suitable respiratory protection where exposure to airborne dust is possible.
<b>Other Protection</b>	None required
<b>Work/Hygienic Practices</b>	Washing with soap and water after use is recommended as good hygienic practice to prevent possible skin irritation and/or eye irritation from hand contact.

**Section 9. Physical and Chemical Properties**

<b>Description</b>	Free-flowing powder.	<b>Odor</b>	None
<b>pH</b>	1.5-2.5 (3% aqueous slurry).	<b>Color</b>	White. Off-white.
<b>Boiling/Condensation Point</b>	Not applicable.		
<b>Specific Gravity</b>	0.800 - 0.962 g/cc		
<b>Vapor Pressure</b>	Not determined.		
<b>Vapor Density</b>	Not determined.		
<b>Viscosity</b>	Not available.		
<b>Solubility</b>	<10% at 70 °F.		
<b>Physical Chemical Comments</b>	Not available.		

**Section 10. Stability and Reactivity Data**

<b>Chemical Stability</b>	The product is stable.
<b>Conditions of Instability</b>	None known.
<b>Incompatibility with Various Substances</b>	Do not use or mix with chlorine type bleaches or other household cleaning agents as harmful fumes may result. May be harmful to painted or lacquered surfaces. Requires very gentle rubbing for use on fiberglass, countertops, and plastic surfaces.
<b>Hazardous Decomposition Products</b>	Oxalic acid may generate formic acid and carbon monoxide under fire conditions.
<b>Hazardous Polymerization</b>	None known.

**Section 11. Toxicological Information****Exposure effects**

<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	Not a primary skin irritant. May cause skin irritation upon prolonged or repeated contact.
<b>Inhalation</b>	Inhalation toxicity not determined. May cause irritation to mucous membranes.
<b>Ingestion</b>	Harmful if swallowed.
<b>Carcinogenicity</b>	Respirable crystalline silica has been designated by NTP and OSHA as a suspect carcinogen and by IARC as a Group 1 carcinogen. However, the use of this product in accordance with label instructions is not expected to result in adverse health effects.

**Section 12. Ecological Information**

<b>Ecotoxicity</b>	Not available.
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**Section 13. Disposal Considerations**

<b>Waste Disposal</b>	Discard small quantities with household trash collection. For large quantities, dispose of in accordance with local, state and federal regulations.
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**Section 14. Transport Information**

<b>DOT Classification</b>	Not a DOT controlled material (United States).	
<b>Proper Shipping Name</b>	Not applicable.	
<b>DOT Identification Number</b>	Not applicable.	
<b>Packing Group</b>	Not applicable.	
<b>Maritime Transportation</b>	Not available.	
<b>Hazardous Substances Reportable Quantity</b>	Not available.	
<b>Special Provisions for Transport</b>	Not available.	
<b>TDG Classification</b>	Not a TDG controlled material.	

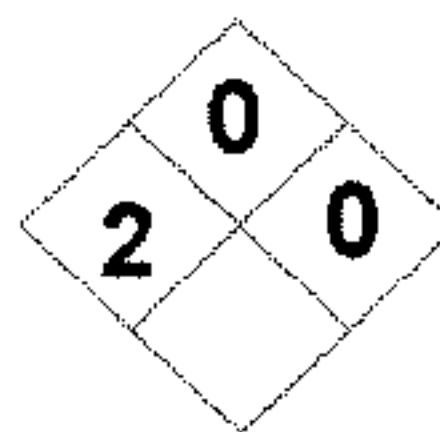
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<b>ADR Classification</b>	Not available.
<b>MDG Classification</b>	Not controlled under IMDG.
<b>IATA Classification</b>	Not controlled under IATA.

**Section 15. Regulatory Information**

<b>Federal and State Regulations</b>	<p>SARA Title III, Section 313 Toxic Chemical Notification &amp; Release Reporting: None</p> <p>California Proposition 65: This product contains the following ingredients which require a warning under the Safe Drinking Water &amp; Toxic Enforcement Act: 1) Not available.</p>
<b>Other Classifications</b>	<p><b>WHMIS (Canada)</b> Not controlled under WHMIS (Canada).</p>

**Section 16. Other Information**

<b>HMIS (U.S.A.)</b>	<table border="1"> <tr> <td>Health Hazard</td> <td>2</td> </tr> <tr> <td>Fire Hazard</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>a</td> </tr> </table>	Health Hazard	2	Fire Hazard	0	Reactivity	0	Personal Protection	a	<p><b>National Fire Protection Association (U.S.A.)</b></p> <p>Health  Fire Hazard</p> <p>Reactivity</p> <p>Specific hazard</p>
Health Hazard	2									
Fire Hazard	0									
Reactivity	0									
Personal Protection	a									

	<b>NFPA Aerosol Level</b> Not applicable.
<b>Validated by Product Safety on 9/11/2000.</b>	<b>Printed 1/15/2001.</b>

**Notice to Reader**

*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.*