



PRODUCT SAFETY DATA SHEET

Print date: 08 Mar 2007

1. PRODUCT AND COMPANY IDENTIFICATION

Item Number / Product code: 0100746

Product name: ZUD® HEAVY DUTY CLEANSER (POWDER)

Validation / Revision Date: 08 March 2007

EPA Identifier: Not applicable.

Formula Number: 1107-180 (0100746)

UPC Number and Size: 62338-00710 (6 oz.)
62338-00750 (16 oz.)

Product Description: Heavy duty powder cleanser for use on non-porous surfaces such as porcelain, ceramic cookware, stainless steel, aluminum, chrome, pewter, brass, bronze and copper.

Manufacturer: Reckitt Benckiser North America, Inc.
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, New Jersey 07054-0225

Emergency telephone number: 1-800-228-4722 (U.S.)

Transportation Emergencies: 1-800-424-9300 (U.S. & Canada) CHEMTREC
Outside the U.S. and Canada (North America), call: 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

Components:
OXALIC ACID, DIHYDRATE
6153-56-6
PUMICE
1332-09-8

Wt %	ACGIH:	OSHA:
5-10	1 mg/m ³ TWA (TLV); 2 mg/m ³ STEL	1 mg/m ³ TWA (PEL)
15-20	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: EYE AND SKIN IRRITANT.

HARMFUL IF SWALLOWED!

DO NOT get in eyes, on skin or on clothing.

DO NOT ingest.

May be a respiratory irritant. Avoid breathing dust. Use in a well-ventilated area.

Wash hands with soap and water after handling.

DO NOT use with chlorine bleach or other household cleaner products as toxic fumes may result.

Contains Calcium Sulfate Dihydrate and Oxalic Acid.

KEEP OUT OF REACH OF CHILDREN

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Skin contact:	If on skin, wash the product off with soap and water. If irritation develops, seek the care of a physician.
Eye contact:	In case of eye contact, hold eyes open and IMMEDIATELY rinse eyes thoroughly with plenty of water. Remove any contact lenses and continue rinsing for at least 15 minutes. If irritation occurs or persists, get medical attention.
Ingestion:	If swallowed, rinse mouth and drink a glass of water. If symptoms persist, get medical attention. Never give an unconscious person anything to ingest.
Notes to physician:	Contains Calcium Sulfate Dihydrate and Oxalic Acid.
Aggravated Medical Conditions:	May aggravate pre-existing upper respiratory and lung diseases (Bronchitis, Emphysema and Asthma). May aggravate pre-existing skin diseases (Rashes and Dermatitis).

5. FIRE-FIGHTING MEASURES

Flash point:	Not applicable (Powder).
Flammability Limits in Air:	
Lower:	No information available.
Upper:	No information available.
Autoignition temperature:	No information available.
Suitable extinguishing media:	As suitable for surrounding fire.
Extinguishing media which must not be used for safety reasons:	No information available.
Specific hazards:	Contains Calcium Sulfate Dihydrate and Oxalic Acid.
Unusual hazards:	Oxalic Acid may generate Formic Acid and Carbon Monoxide under fire conditions.
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.
Specific methods:	Standard procedure for chemical fires.

NFPA: Health: 2 Flammability: 0 Instability: 0

HMS: Health: 2 Flammability: 0 Reactivity: 0

Key: Personal Protection Index = B.
(Also see Sections 3 & 8)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation.

Environmental precautions: Do not allow material to contaminate ground water system.

Methods for cleaning up: Small spills: Sweep up, minimizing airborne dust. Place into a paper or plastic bag and discard in dry trash. Remaining spill residues of dust may be wiped up with a wet paper towels or flushed into sink or sanitary sewer.

Large spills:
Wear rubber gloves and appropriate eye protection.
Appropriate dust particle face masks, supplied air or self-contained breathing apparatus (SCBA) is required to be worn by all emergency responders and clean-up personnel.

Large spills: Collect with a minimum of dust, place in a suitable container for disposal according to local, state, provincial and federal regulations.

7. HANDLING AND STORAGE

Handling: WARNING: EYE AND SKIN IRRITANT!
Use with adequate ventilation.
For occupational exposures wear appropriate eye and skin protection where the potential for splashing exists.
Use only as directed!
Read container label instructions carefully.

Safe handling advice: Avoid dust formation.
Use only in well-ventilated areas.
Do not breathe dust.

Storage: Store containers in an upright position in a cool, dry area, inaccessible to small children and pets.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure: For occupational exposures, ensure adequate ventilation.

Personal Protective Equipment

Respiratory protection: None required under normal use conditions.
Use in a well-ventilated area.
In case of insufficient ventilation wear suitable respiratory equipment.
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of airborne particles (dust) generated by this product during a spill or other clean-up operations.

Hand protection:	Skin irritant. Wear impervious gloves where the potential for contact with the powder is possible. Emergency responders should wear impermeable gloves.
Skin and body protection:	Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.
Eye protection:	Eye irritant. Avoid contact with eyes. Appropriate eye protection such as: Safety glasses with side shields, chemical goggles or full face shield for occupational exposures. Emergency responders should wear full eye and face protection.
Hygiene measures:	Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Powder.
Appearance:	Free flowing wettable powder.
Colour:	Off-white.
Odour:	None.
pH:	1.5 - 2.5 (3% aqueous slurry)
Flash point:	Greater than 93° C (>200° F)
Specific gravity:	No information available.
Density:	0.72 - 0.88 g/cc
Vapour pressure:	Not determined.
Solubility:	Practically insoluble.

Explosion limits:

- upper:	No data available.
- lower:	No data available.

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	Hazardous polymerisation does not occur.
Hazardous decomposition products:	Oxalic acid may generate formic acid and carbon monoxide under fire conditions.
Materials to avoid:	Do not mix with chlorine bleach or other cleaning agents.
Conditions to avoid:	Store away from excessive heat and moisture.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Product Information

LC50/inhalation/4h/rat =	No information available.
LD50/dermal/rabbit =	No information available.
LD50/oral/rat =	No information available.

Local effects

Skin irritation:	Skin irritant.
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Eye irritation:	Eye irritant.
Inhalation	Avoid breathing airborne dust.
Ingestion	May be harmful if swallowed. See Section 4 for First Aid instructions.
Sensitization	Not expected to be a skin sensitiser.
Chronic toxicity:	No information available.

Specific effects

Carcinogenic effects:	Not listed as carcinogenic by OSHA, NTP or IARC.
Mutagenic effects:	No information available.
Reproductive toxicity:	No information available.
Target organ effects:	No information available.

Information is based on data on the components and the toxicology of similar products.

12. ECOLOGICAL INFORMATION

Product Information

Aquatic toxicity:	No information available.
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Component Information:

OXALIC ACID, DIHYDRATE
6153-56-6 (5-10)

Ecotoxicity:	= 1350 mg/L LC50 mosquito fish static = 4000 mg/L LC50 bluegill static
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Other information:

Ozone depletion potential; ODP; (R-11 = 1) =	No information available.
Global warming potential (GWP) =	No information available.

Additional ecological information:	No information available.
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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:	Dispose of in accordance with local regulations.
Contaminated packaging:	Empty container can be disposed of as household trash or rinsed and recycled where appropriate.
Waste Disposal:	Small amounts of powder waste: Wipe up with a wet paper towel and discard absorbed material in trash collection and flush waste residue to sink or sanitary sewer. Wear appropriate personal protective equipment when cleaning or handling waste material. Avoid creating airborne dust during the clean-up operations. Use HEPA filtered Vacuum or wet cleaning operations. Large amounts of powder waste: Dispose of in accordance with local, state, provincial and federal regulations.

14. TRANSPORT INFORMATION

UN / Id No:	Not applicable
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DOT:

Classification: Not a DOT regulated material. (United States)
Proper shipping name: Not applicable.
U.S. DOT - Hazard Class: Not applicable.
Subsidiary risk: Not applicable.
Packing Group: Not applicable.
DOT RQ (lbs): Not applicable.
ERG No: Not applicable.

TDG (Canada):

Classification: Not regulated under TDG
Proper shipping name: Not applicable.
Status: Not applicable.
Packing Group: Not applicable.

IMDG / IMO

Classification: Not regulated under IMDG
Proper shipping name: Not applicable.
Class: Not applicable.
Subsidiary Risk: Not applicable.
Packing group: Not applicable.
IMDG page: Not applicable.
Marine pollutant: Not applicable.
EMS: Not applicable.
MFAG: See Guide.

ADR / RID

Classification: Not applicable.
Proper shipping name: Not applicable.
Class: Not applicable.
Subsidiary risk: Not applicable.
Packing Group: Not applicable.
ADR/RID-labels: Not applicable
Hazard Identification Number: Not applicable.
CEFIC Tremcard No: Not applicable.

ICAO / IATA:

Classification: Not regulated under ICAO / IATA
Proper shipping name: Not applicable.
Class: Not applicable.
Subsidiary Risk: Not applicable
Packing Group: Not applicable.
Maximum quantity Not applicable.

15. REGULATORY INFORMATION

Components:	PICCS:	TSCA:	DSL:	NDSL:	ENCS:	CHINA:	AICS:	EINECS-No
OXALIC ACID, DIHYDRATE						Present	Present	205-634-3

U.S. Regulations:

Components: *OXALIC ACID, DIHYDRATE - 6153-56-6*
NJRTK: Not Listed.
California Proposition 65 - CERCLA/SARA 313: None
Components: *PUMICE - 1332-09-8*
NJRTK: Not Listed.

Canada

WHMIS hazard class: Not determined.

16. OTHER INFORMATION

National Fire
Protection
Association (U.S.A.):



HMIS (U.S.A.):

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

Reason for revision: This is a new formulation of an existing product.

Additional advice: This product should only be used as directed on the label and for the purpose intended.

Prepared by: Reckitt Benckiser (U.S.) Inc.
Product Safety Department
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