



## PRODUCT SAFETY DATA SHEET

Print date: 13 Nov 2007

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Item Number / Product code:** 359583

**Product name:** ZUD® MULTI-PURPOSE CREAM CLEANSER (LIQUID)

**Validation / Revision Date:** 08 November 2007

**Formula Number:** 1364-028 (359583)

**UPC Number and Size:** 62338-74610 (19 oz.) Pourable.

**Product Description:** Creamy multi-purpose cleanser for removing baked-on, caked on grease and grime from hard surfaces.

**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:**

MICROCRYSTALLINE SILICA  
14808-60-7

TITANIUM DIOXIDE

13463-67-7

PROPYLENE GLYCOL

57-55-6

LAURYL DIMETHAMINE OXIDE 30%

1643-20-5

COCAMIDOPROPYL BETAINE

61789-40-0

C12-13 PARETH-7

66455-14-9

PPG-2 METHYL ETHER

34590-94-8

OXALIC ACID, DIHYDRATE

6153-56-6

Wt %	ACGIH:	OSHA:
5-10	TWA (TLV): 0.05 mg/m <sup>3</sup> @10	EXPOSURE LIMITS: QUARTZ: 0.3 mg/m <sup>3</sup> OSHA TWA (total dust) (30 mg/m <sup>3</sup> divided by %SiO <sub>2</sub> + 2, based on size/aerodynamic characteristics) 0.1 mg/m <sup>3</sup> OSHA TWA (respirable dust) (10 mg/m <sup>3</sup> divided by %SiO <sub>2</sub> + 2, based on size/aerodynamic characteristics) 2.38 mp
0-1	TWA (TLV): 10 mg/m <sup>3</sup> @10	TWA (PEL): 15 mg/m <sup>3</sup> @10
5-10	None	None
1-3	None	None
1-3	None	None
1-3	None	None
1-5	TWA (TLV): 100 ppm @10 STEL: 150 ppm @10	None
1-5	1 mg/m <sup>3</sup> TWA (TLV); 2 mg/m <sup>3</sup> STEL	1 mg/m <sup>3</sup> TWA (PEL)

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

CAUTION: EYE AND SKIN IRRITANT

DO NOT get in eyes or on skin.

DO NOT mix with any other products, especially Chlorine Bleach, Ammonia or Alkaline products as toxic fumes may result.

Contains Oxalic Acid.

**KEEP OUT OF REACH OF CHILDREN**

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air.
<b>Skin contact:</b>	If on skin, wash with soap and water. Get medical attention if irritation persists.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	If swallowed, rinse mouth with water and seek IMMEDIATE medical advice. Show the container or product label to the medical personnel. Do not induce vomiting without medical advice
<b>Notes to physician:</b>	Contains Oxalic Acid, approximately 5%. Contains surfactants.  See Section 2, Composition / Information on Ingredients.
<b>Aggravated Medical Conditions:</b>	No information available.

## 5. FIRE-FIGHTING MEASURES

<b>Flash point:</b>	CLOSED CUP: Higher than 93.3° C (>200° F). [Tagliabue].
<b>Flammability Limits in Air:</b>	
<b>Lower:</b>	No information available.
<b>Upper:</b>	No information available.
<b>Autoignition temperature:</b>	No information available.
<b>Suitable extinguishing media:</b>	As suitable for surrounding fire.
<b>Extinguishing media which must not be used for safety reasons:</b>	No information available.
<b>Specific hazards:</b>	Contains oxalic acid. Contains silica, microcrystalline. Contains surfactants. See Section 3, Hazards Identification.
<b>Unusual hazards:</b>	Oxalic Acid may generate Formic Acid and Carbon Monoxide under fire conditions.
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA / NIOSH (approved or equivalent) and full protective gear.
<b>Specific methods:</b>	Standard procedure for chemical fires.

**NFPA:**    **Health:** 0                      **Flammability:** 0                      **Instability:** 0

**HMS:**    **Health:** 0                      **Flammability:** 0                      **Reactivity:** 0

**Key:**                                      (Also see Sections 3 & 8)

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not allow material to contaminate ground water system.
<b>Methods for cleaning up:</b>	Small amounts: Wipe up with absorbent material (e.g. cloth, fleece, paper towel, etc.).  Large spills should be diked, contained and collected for later disposal according to local, provincial, state or federal regulations.

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Use with adequate ventilation.
<b>Safe handling advice:</b>	CAUTION: EYE AND SKIN IRRITANT. DO NOT get in eyes or on skin. For sensitive skin, wear rubber gloves when handling.
<b>Storage:</b>	Store in original container in areas inaccessible to small children and pets. KEEP OUT OF REACH OF CHILDREN
<b>Incompatible products:</b>	Do not mix with chlorine bleach, strong alkali materials or other household chemicals. Do not mix with ammonia.

## 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.

**Hand protection:** Skin irritant.  
For sensitive skin or prolonged use, wear rubber gloves.  
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, wear eye protection if the possibility of splashing exists.  
DO NOT get in eyes.  
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:** Liquid. (Smooth paste of creamy consistency)

**Appearance:** Opaque

**Colour:** White.

**Odour:** Floral. Citrus.

**pH:** 1.0 [Strongly acidic]

**Flash point:** Greater than 93° C (>200° F)

**Specific gravity:** 1.1 (Water = 1.0)

**Vapour pressure:** Not determined.

**Solubility:** Partly soluble.

### 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.  
Oxides of carbon and unknown organic compounds.

**Materials to avoid:** Ammonia.  
Strong alkaline materials.  
Do not mix with any other household chemicals such as chlorine bleach containing compounds as toxic vapors may be formed.

**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.  
For sensitive skin or prolonged use, wear impervious gloves.

**Eye irritation:** Eye irritant.  
Avoid eye contact.

**Inhalation** Health injuries are not known or expected under normal use  
Use only in a well ventilated area.

**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:** Respirable crystalline silica is designated as an IARC Group 1 Carcinogen, NTP suspect Carcinogen and OSHA suspect Carcinogen. However, the silica present in this product is not in a respirable form, when used according to the label directions.

**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.

### Component Information:

*PROPYLENE GLYCOL*  
57-55-6 (5-10)

**Ecotoxicity:** > 10000 mg/L LC50 guppy  
> 10000 mg/L EC50 water flea  
> 5000 mg/L LC50 goldfish  
= 710 mg/L EC50 Photobacterium phosphoreum

*OXALIC ACID, DIHYDRATE*  
6153-56-6 (1-5)

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

### 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.

**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 liquid waste: Wipe up with a wet paper towel and discard absorbed material in trash collection or flush waste to sink or sanitary sewer.

Large quantities:

Wearing appropriate personal protective equipment, collect and store in an appropriate container for disposal according to local, state, provincial and federal regulations.

**14. TRANSPORT INFORMATION**

**UN / Id No:**

**UN 3265**

**DOT:**

**Classification:**

UN 3265, Corrosive Liquid, Acidic, Organic N.O.S. (Oxalic Acid), Class 8, PG III, Limited Quantity.

Re-Classed as Consumer Commodity ORM-D.

**Proper shipping name:**

Consumer Commodity

**U.S. DOT - Hazard Class:**

Not applicable.

**Subsidiary risk:**

Not applicable.

**Packing Group:**

Not applicable.

**DOT RQ (lbs):**

Not applicable.

**ERG No:**

171 / 153

**TDG (Canada):**

**Classification:**

UN 3265, Corrosive Liquid, Acidic, Organic N.O.S. (Oxalic Acid), Class 8, PG III, Limited Quantity.

Re-Classed as Consumer Commodity / Limited Quantity.

**Proper shipping name:**

Consumer Commodity / Limited Quantity

**Status:**

Not applicable.

**Packing Group:**

Not applicable.

**IMDG / IMO**

**Classification:**

UN 3265, Corrosive Liquid, Acidic, Organic N.O.S. (Oxalic Acid), Class 8, PG III, Limited Quantity.

**Proper shipping name:**

Corrosive Liquid, Acidic, Organic, N.O.S. (Oxalic Acid)

**Class:**

8

**Subsidiary Risk:**

Not applicable.

**Packing group:**

III

**IMDG page:**

Not applicable.

**Marine pollutant:**

Not applicable.

**EMS:**

F-A / S-B

**MFAG:**

See Guide.

**Maximum quantity:**

See IMDG Code.

**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:** UN 3265, Corrosive Liquid, Acidic, Organic N.O.S. (Oxalic Acid), Class 8, PG III.  
**Proper shipping name:** Corrosive Liquid, Acidic, Organic, N.O.S. (Oxalic Acid)  
**Class:** 8  
**Subsidiary Risk:** Not applicable  
**Packing Group:** III  
**Maximum quantity:** See DG List.

**15. REGULATORY INFORMATION**

Components:	PICCS:	TSCA:	DSL:	NDSL:	ENCS:	CHINA:	AICS:	EINECS-No
MICROCRYSTALLINE SILICA						Present	Present	238-878-4
TITANIUM DIOXIDE						Present	Present	2366755
PROPYLENE GLYCOL						Present	Present	200-338-0
LAURYLDIMETHAMINEOXIDE30%	Present	Present				Present	Present	216-700-6
COCAMIDOPROPYL BETAINE						Present	Present	263-058-8
C12-13 PARETH-7						Present	Present	
PPG-2 METHYL ETHER						Present	Present	252-104-2
OXALIC ACID, DIHYDRATE						Present	Present	205-634-3

**U.S. Regulations:**

**Components:** *MICROCRYSTALLINE SILICA - 14808-60-7*  
**NJRTK:** Not Listed.  
**California Proposition 65 - CERCLA/SARA 313:** None.

**Components:** *TITANIUM DIOXIDE - 13463-67-7*  
**NJRTK:** Not Listed.  
**California Proposition 65 - CERCLA/SARA 313:** None.

**Components:** *PROPYLENE GLYCOL - 57-55-6*  
**NJRTK:** Not Listed.  
**California Proposition 65 - CERCLA/SARA 313:** None.

**Components:** *LAURYLDIMETHAMINEOXIDE30% - 1643-20-5*  
**NJRTK:** Not Listed.  
**California Proposition 65 - CERCLA/SARA 313:** None.

**Components:** *COCAMIDOPROPYL BETAINE - 61789-40-0*  
**NJRTK:** Not Listed.  
**California Proposition 65 - CERCLA/SARA 313:** None.

**Components:** *C12-13 PARETH-7 - 66455-14-9*  
**NJRTK:** Not Listed.  
**California Proposition 65 - CERCLA/SARA 313:** None.

**Components:** *PPG-2 METHYL ETHER - 34590-94-8*  
**NJRTK:** Not Listed.  
**California Proposition 65 - CERCLA/SARA 313:** None.

**Components:** *OXALIC ACID, DIHYDRATE - 6153-56-6*  
**NJRTK:** Not Listed.  
**California Proposition 65 -**

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	A

**Reason for revision:** Revision of data and / or an update of the PSDS.

**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.  
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