



## MATERIAL SAFETY DATA SHEET

Print Date: 4/09/2008

Revision Number: 5

### I. PRODUCT AND COMPANY IDENTIFICATION

**Product code:** Fresh: 0026275, 0026276, 0049972, 0049967, 0052679, 0085639, 0052679, 0085639  
Orange: 0026277, 0026278, 0049971, 0049966, 0085640, 0085641, 0085640, 0085641  
Green Apple: 0026281, 0026282, 0049973, 0049968, 0085642, 0085643, 0085642, 0085643  
**Document Code** D0012498

**Product name:** **ELECTRASOL AUTOMATIC DISHWASHING DETERGENT,  
3-in-1 POWERBALL TABS - ALL SCENTS**

**UPC Number and Size:**

<u>Scent: Fresh</u>		<u>Scent: Apple</u>	
51700-79130	12 count	51700-79066	25 count (Canada)
51700-79064	15 count (Canada)	51700-79065	15 count (Canada)
51700-77050	20 count	51700-77410	20 count
51700-80328	20+5 count	51700-79067	25 count (Canada)
51700-79305	28 count		
51700-79593	28+7 count		
51700-79131	55 count		
51700-79039	55 count (Canada)		
51700-76456	75 count	<u>Scent: Orange</u>	
51700-78239	85 count	51700-77039	20 count
51700-80753	90 count	51700-80329	20+5 count
		51700-77267	55 count (Canada)
		51700-81064	90 count

**Product Description:** Electrasol automatic dishwashing detergent tablet containing a special 3 in 1, pre-measured cleaning agent of concentrated detergent and Powerball rinse agent

**Synonyms:** No information available

**Chemical characterisation:** No data is available on the product itself.

**Manufacturer:** Reckitt Benckiser North America Inc.      Reckitt Benckiser (Canada) Inc  
Morris Corporate Center IV      1680 Tech Avenue, Unit 2  
399 Interpace Parkway (P.O. Box 225)      Mississauga, Ontario L4W 5S9  
Parsippany, N.J. 07054-0225      CANADA

**Transportation Emergencies:** 1-800-424-9300 (U.S. & Canada)  
Outside North America Chemtrec:703-527-3887

**Emergency Telephone number:** 1-800-228-4722 (US); 800-888-0192 (Canada)



## MATERIAL SAFETY DATA SHEET

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

	CAS-No	Weight %	TLV/PEL
Sodium Carbonate	497-19-8	30 - 40%	None
Sodium Tripolyphosphate	7758-29-4	20 - 30%	None
Sodium Perborate Monohydrate	10332-33-9	5 - 10%	None
Sodium Disilicate	1344-09-8	5 - 10%	None
Sodium Hydrogencarbonate	144-55-8	1 - 5%	None
Citric Acid Anhydrous	77-92-9	1 - 5%	None
Protease	9014-01-1	0.1 - 1.0%	60 ng/m <sup>3</sup>
Amylase	9000-90-2	0.1 - 1.0%	None

Other ingredients: TAED, Colorant, Perfume, Glycerol

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Harmful if swallowed.  
EYE IRRITANT. DO NOT get directly in eyes.  
PRODUCT MAY POSE A CHOKING HAZARD TO CHILDREN UNDER 3 YEARS OF AGE.  
Contains Sodium *Revision Number: 5* Perborate and enzymes.

**KEEP OUT OF REACH OF CHILDREN**

### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air.

**Skin contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids. Remove any contact lenses. Flush eye with water for 15 minutes. If symptoms persist, call a physician.

**Notes to physician:** No information available.

**Aggravated Medical Conditions:** No information available.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media:** As for surrounding fire.



## MATERIAL SAFETY DATA SHEET

**Extinguishing media which must not be used for safety reasons:** No information available.

**Specific hazards:** Not applicable.

**Unusual hazards:** None known.

**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.

**Flash point:** Not applicable.

**Autoflignition temperature:** No information available.

**Flammability Limits in Air:**  
Lower: No information available  
Upper: No information available

**NFPA:** Health: 2      **Flammability:** 0      **Instability:** 0  
**HMS:** Health: 2      **Flammability:** 0      **Physical Hazard:** 0  
**Key:**  
See also section 3

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Ensure adequate ventilation.

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

**Accidental Spill:** Collect spilled tablets and return to container.  
If powder has resulted from broken tablet(s), flush area with water or wipe with absorbent material (wet paper towel).  
Rinse well and dry floors to avoid slippery condition.

### 7. HANDLING AND STORAGE

**Handling:** Harmful if swallowed CAUTION: EYE IRRITANT. DO NOT get directly in the eyes. contains enzymes.

**Storage:** Store in original container in areas inaccessible to small children and pets. KEEP OUT OF REACH OF CHILDREN.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



## MATERIAL SAFETY DATA SHEET

Components	CAS-No	TLV/PEL
Protease	9014-01-1	60 ng/m <sup>3</sup>

Engineering measures to reduce exposure: Ensure adequate ventilation.

### Personal Protective Equipment

- Respiratory protection:** Self-contained breathing apparatus (SCBA).
- Hand protection:** PVC disposable gloves.
- Skin and body protection:** Usual safety precautions while handling the product will provide adequate protection against this potential effect.
- Eye protection:** Avoid contact with eyes. Safety glasses with side-shields. Emergency responders should wear full eye and face protection.
- Hygiene measures:** Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state:** Solid.
- Appearance:** Solid rectangular tablets with rounded corners composed of a white layer, a smaller blue layer with an embedded pill, either white or red.
- Colour:** white and blue layered tablet with embedded pill (white or red)
- Odour:** Perfumed
- pH:** 10.2 - 10.8 (10% aqueous solution)
- Autoignition temperature:** No information available.
- Density:** No information available.
- Weight:** 20 - 22 g /tablet
- Vapor density:** Not applicable.
- Vapour pressure:** Not applicable.
- Water solubility:** Completely Soluable
- VOC content(%):** No information available.
- 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.



## MATERIAL SAFETY DATA SHEET

**Hazardous decomposition products:** Product develops heat and releases carbon dioxide if contact with acids.

**Materials to avoid:** Do not mix with other household chemicals

**Conditions to avoid:** Do not expose to temperatures above 120°F / 50°C

### 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 = > 2500 mg/kg (calculated based on raw material data).

#### Local effects

**Skin irritation:** None expected during normal conditions of use.

**Eye Irritation:** Irritating to eyes.

**Inhalation** Contains enzymes: Avoid breathing dust from broken tablets. May cause mild nasal irritation upon prolonged or repeated contact to the dust in occupational or emergency response situation.

**Ingestion** Harmful if swallowed. Will cause burning in mouth and throat. Difficulty swallowing, excessive salivating in infants. Reddening and swelling of mucous membranes of the mouth and throat.

**Sensitization** Not expected to be a skin sensitiser

**Chronic toxicity:** No information available

#### Specific effects

**Carcinogenic effects:** No ingredient 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



## MATERIAL SAFETY DATA SHEET

### 12. ECOLOGICAL INFORMATION

#### Product Information

**Mobility:** Not applicable.  
**Bioaccumulative potential:** Not applicable.  
**Ecotoxicity effects:** No data available for the mixture.  
**Aquatic toxicity:** No information available for the mixture.

#### Component Information

##### **Components**

*Sodium Carbonate*

**Ecotoxicity:** LC50 (fish, 96h) = 320 mg/L

##### **Components**

*Sodium Tripolyphosphate*

**Ecotoxicity:** EC50 (bacteria, 48h) > 1000 mg/L

##### **Components**

*Sodium Perborate Monohydrate*

**Ecotoxicity:** LC50 (fish, 96h) = 51 mg/L (Brachydanio rerio)

EC50 (daphnia, 48h) = 11 mg/L (Daphnia magna)

EC50 (algae, 96h) = 12 mg/L (Scenedesmus subspicatus)

##### **Components**

*Sodium Disilicate*

**Ecotoxicity:** LC50 (fish, 96h) = 3185 mg/L (Brachydanio rerio)

EC50 (daphnia, 48h) = 4857 mg/L (Daphnia magna)

##### **Components**

*Sodium Hydrogencarbonate*

**Ecotoxicity:** LC50 (fish, 96h) = 8600 mg/L (Lepomis Macrochirus)

##### **Components**

*Citric Acid anhydrous*

**Ecotoxicity:** = 14 mg/L 15 min EC50 Photobacterium phosphoreum

##### **Components**

*Protease*

**Ecotoxicity:** The product is not believed to dangerous to the environment with respect to mobility persistence, degradability, bioaccumulative potential, aquatic toxicity, and other data relating to eco-toxicity.

##### **Components**

*Amylase*

**Ecotoxicity:** The product is not believed to dangerous to the environment with respect to mobility persistence, degradability, bioaccumulative potential, aquatic toxicity, and other data relating to eco-toxicity.

#### Other information

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



## MATERIAL SAFETY DATA SHEET

**Additional ecological information:**

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

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:**

Dispose of in accordance with local regulations.

**Contaminated packaging:**

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**General Comments**

Not classified as dangerous under DOT, TDG, IMDG, ICAO and ADR/RID transport regulations. For long distance transport of bulk material or shrinked pallets take into consideration sections 7 and 10.

**UN No:**

No UN-Number allocated

### 15. REGULATORY INFORMATION

**International Inventories**

Components	PICCS:	TSCA:	DSL:	ENCS:	CHINA:	AICS:	EINECS-No
Sodium Carbonate	Present	XU	Present	1-164	Present	Present	207-838-8
Sodium Tripolyphosphate		Xu	Present				231-838-7
Sodium Perborate Monohydrate	Present	Anhydrate: yes	Present		Present	Present	234-390-0
Sodium Disilicate	Present	Present	Present	1-508	Present	Present	215-687-4
Sodium Hydrogencarbonate	Present	Present	Present	1-164; 1-310	Present	Present	205-633-8
Citric Acid Anhydrous	Present	Present	Present	2-1318	Present	Present	201-069-1
Protease	Present	XU	Present		Present	Present	232-752-2
Amylase	Present	XU	Present		Present	Present	232-565-6

**U.S. Regulations:**

SARA Title III, Section 313 Chemical Notification & Release Reporting: None

**Canada**

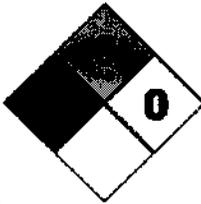
WHMIS hazard class: Not determined.

# RECKITT BENCKISER

## MATERIAL SAFETY DATA SHEET

### 16. OTHER INFORMATION

#### National Fire Protection Association



#### HMIS (U.S.A.):

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	B

#### (U.S.A.):

#### Reason for revision:

Changing Formula codes, see chapter 1. Replacing release 3 dd 05/23/2006

#### Additional advice:

Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

#### Prepared by:

Reckitt Benckiser  
North American Regulatory Affairs  
Parsippany, New Jersey

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.