



MATERIAL SAFETY DATA SHEET

Print Date: 4/09/2008

Revision Number: 5

1. 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:

Scent: Fresh

51700-79130 12 count
 51700-79064 15 count (Canada)
 51700-77050 20 count
 51700-80328 20+5 count
 51700-79305 28 count
 51700-79593 28+7 count
 51700-79131 55 count
 51700-79039 55 count (Canada)
 51700-76456 75 count
 51700-78239 85 count
 51700-80753 90 count

Scent: Apple

51700-79066 25 count (Canada)
 51700-79065 15 count (Canada)
 51700-77410 20 count
 51700-79067 25 count (Canada)

Scent: Orange

51700-77039 20 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.
 Morris Corporate Center IV
 399 Interpace Parkway (P.O. Box 225)
 Parsippany, N.J. 07054-0225
 Reckitt Benckiser (Canada) Inc
 1680 Tech Avenue, Unit 2
 Mississauga, Ontario L4W 5S9
 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)



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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 ³
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.



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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.

Autolignition 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



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

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 Soluble
- 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.



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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



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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.



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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 paletts 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:

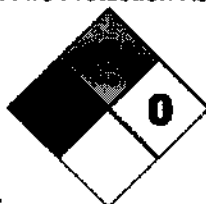
Not determined.



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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:

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Parsippany, New Jersey

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