



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. Reckitt Benckiser (Canada) Inc
Morris Corporate Center IV
399 Interpace Parkway (P.O. Box 225)
Parsippany, N.J. 07054-0225
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/m³
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.

Autoignition temperature: No information available.

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

NFPA: Health: 2

Flammability: 0

Instability: 0

HMIS: 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 embeded 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.
<u>Explosion limits:</u>	
- 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 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.



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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:

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.