

## 1. Product and Company Identification

**Product Name** FINISH® POWERBALL® Tabs - All Scents  
**CAS #** Mixture

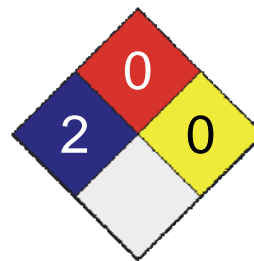
**This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA). This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.**

**Product Use** Dishwasher detergent

**Distributed by** Reckitt Benckiser  
 Morris Corporate Center IV  
 399 Interpace Parkway  
 P.O. Box 225  
 Parsippany, NJ 07054-0225  
 In Case of Emergency: 1-800-338-6167  
 Transportation Emergencies: 24 Hour Number:  
 North America: CHEMTREC: 1-800-424-9300  
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	0
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

### Emergency overview

CAUTION  
 HARMFUL IF SWALLOWED. EYE IRRITANT.  
 DO NOT ingest. DO NOT get in eyes.

NOTICE: PRODUCT MAY POSE A CHOKING HAZARD TO CHILDREN UNDER 3 YEARS OF AGE.  
 Keep the pack closed.

KEEP OUT OF REACH OF CHILDREN.

### Potential short term health effects

#### Routes of exposure

Eye, Skin contact, Inhalation, Ingestion.

#### Eyes

Irritating to eyes.

#### Skin

Slightly irritating to the skin.  
 Not expected to be a skin sensitizer.

#### Inhalation

Exposure to decomposition products may cause a health hazard.  
 Serious effects may be delayed following exposure.

#### Ingestion

Harmful if swallowed.

### Target organs

Skin. Eyes.

### Chronic effects

The finished product is not expected to have chronic health effects.

### Signs and symptoms

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

### OSHA Regulatory Status

Not available

### Potential environmental effects

Components of this product have been identified as having potential environmental concerns.

### 3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium carbonate	497-19-8	20 - 40
Methyl glycine diacetic acid, trisodium salt	164462-16-2	2.5 - 10
Sodium percarbonate	15630-89-4	10 - 20
Subtilisin carlsburg	9014-01-1	0.1 - 1
A-Amylase (EC# 3.2.1.1)	9000-90-2	0 - 0.1

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	If swallowed, rinse mouth and drink a glass of water. DO NOT induce vomiting. Call a physician or Poison Control Center IMMEDIATELY.

#### Notes to physician

Treat patient symptomatically.

#### General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. Fire Fighting Measures

<b>Flammable properties</b>	Not flammable by OSHA criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Treat for surrounding material.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

### 6. Accidental Release Measures

<b>Personal precautions</b>	Ensure adequate ventilation. Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.
<b>Methods for containment</b>	Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.

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## 7. Handling and Storage

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<b>Handling</b>	Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. Do not ingest. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash hands before breaks and immediately after handling the product. Notice: Product may pose a choking hazard to children under 3 years of age.
<b>Storage</b>	Keep out of reach of children. Store in a closed container away from incompatible materials. Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Store between 5°C and 30°C. Avoid storage under direct sunlight. Store upright to prevent product leakage.

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## 8. Exposure Controls / Personal Protection

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### Exposure limits

Ingredient(s)	Exposure Limits
A-Amylase (EC# 3.2.1.1)	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Methyl glycine diacetic acid, trisodium salt	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium carbonate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Sodium percarbonate	<b>ACGIH-TLV</b> Not established <b>OSHA-PEL</b> Not established
Subtilisin carlsburg	<b>ACGIH-TLV</b> Ceiling: 0.0001 mg/m <sup>3</sup> <b>OSHA-PEL</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

**Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.**

#### Eye / face protection

Wear safety glasses with side shields. Emergency responders should wear full eye and face protection.

#### Hand protection

Rubber gloves. Confirm with a reputable supplier first.  
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 label directions carefully.  
Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

<b>Respiratory protection</b>	Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.
<b>General hygiene considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Tablet
<b>Color</b>	White / Blue / Red
<b>Form</b>	Solid.
<b>Odor</b>	Various
<b>Odor threshold</b>	Not available
<b>Physical state</b>	Solid
<b>pH</b>	9.5 - 10.0 (10%)
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation rate</b>	Not available
<b>Flash point</b>	> 212.00 °F (> 100 °C) Tag Open Cup
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not applicable
<b>Flammability limits in air, upper, % by volume</b>	Not applicable
<b>Vapor pressure</b>	Not available
<b>Vapor density</b>	Not available
<b>Specific gravity</b>	Not available
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Soluble

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## 10. Stability and Reactivity

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<b>Reactivity</b>	This product may react with strong oxidizing agents. This product may react with strong acids.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals. Do not mix with chlorine bleach. Keep away from extreme heat. Exposure to moisture. Do not freeze.
<b>Incompatible materials</b>	Oxidizers. Acids.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen.

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## 11. Toxicological Information

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### Component analysis - LC50

Ingredient(s)	LC50
A-Amylase (EC# 3.2.1.1)	Not available
Methyl glycine diacetic acid, trisodium salt	Not available
Sodium carbonate	400 mg/m3 guinea pig
Sodium percarbonate	Not available
Subtilisin carlsburg	Not available

**Component analysis - Oral LD50**

Ingredient(s)	LD50
A-Amylase (EC# 3.2.1.1)	7500 mg/kg rat
Methyl glycine diacetic acid, trisodium salt	2000 mg/kg rat
Sodium carbonate	4090 mg/kg rat
Sodium percarbonate	2200 mg/kg mouse; 1034 mg/kg rat
Subtilisin carlsburg	Not available

**Effects of acute exposure**

<b>Eye</b>	Irritating to eyes.
<b>Skin</b>	Slightly irritating to the skin. Not expected to be a skin sensitizer.
<b>Inhalation</b>	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
<b>Ingestion</b>	Harmful if swallowed.
<b>Sensitization</b>	The finished product is not expected to have chronic health effects.
<b>Chronic effects</b>	The finished product is not expected to have chronic health effects.
<b>Carcinogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Mutagenicity</b>	The finished product is not expected to have chronic health effects.
<b>Reproductive effects</b>	The finished product is not expected to have chronic health effects.
<b>Teratogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Name of Toxicologically Synergistic Products</b>	Not available

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**12. Ecological Information**

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<b>Ecotoxicity</b>	See below	
<b>Ecotoxicity - Freshwater Algae - Acute Toxicity Data</b>		
Sodium carbonate	497-19-8	120 Hr EC50 Nitzschia: 242 mg/L
Sodium percarbonate	15630-89-4	240 Hr EC50 Chlorella emersonii: 70 mg/L
<b>Ecotoxicity - Freshwater Fish - Acute Toxicity Data</b>		
Sodium carbonate	497-19-8	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 mg/L [static]
Sodium percarbonate	15630-89-4	96 Hr LC50 Pimephales promelas: 70.7 mg/L [static]
<b>Ecotoxicity - Water Flea - Acute Toxicity Data</b>		
Sodium carbonate	497-19-8	48 Hr EC50 Daphnia magna: 265 mg/L
Sodium percarbonate	15630-89-4	48 Hr EC50 Daphnia pulex: 4.9 mg/L
<b>Persistence / degradability</b>	Not available	
<b>Bioaccumulation / accumulation</b>	Not available	
<b>Mobility in environmental media</b>	Not available	
<b>Environmental effects</b>	Not available	
<b>Aquatic toxicity</b>	Not available	
<b>Partition coefficient</b>	Not available	
<b>Chemical fate information</b>	Not available	

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**13. Disposal Considerations**

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<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations. Discard in trash or offer for recycling.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

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## 14. Transport Information

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**UN/ID N.o.** Not applicable

**U.S. Department of Transportation (DOT): Classification:** Not regulated

**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

**Transportation of Dangerous Goods (TDG - Canada): Classification:** Not regulated

**Proper shipping name** Not applicable

**Status** Not applicable

**Packing group** Not applicable

**IMDG (Marine Transport): Classification:** Not regulated

**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** Not applicable

**Maximum Quantity** Not applicable

**IATA/ICAO (Air): Classification:** Not regulated

**Proper shipping name** Not applicable

**Class** Not applicable

**Subsidiary Risk:** Not applicable

**Packing group** Not applicable

**Maximum Quantity** Not applicable

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## 15. Regulatory Information

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### Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

### US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
CERCLA/SARA Hazardous Substances - Not applicable.

Product Registration: Product is compliant with CPSC regulatory guidelines; a specific registration is not required for this product.

### CERCLA (Superfund) reportable quantity

1,4-Dioxane: 100.0000  
Oxirane: 10.0000

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

### Clean Water Act (CWA)

Not available

### State regulations

This product is not subject to warning labeling under the California Proposition 65 regulation.

### U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Subtilisin carlsburg 9014-01-1 Present

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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### Disclaimer

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

### Further information

FINISH® POWERBALL® Tabs - Fresh - 8031925v1.0  
FINISH® POWERBALL® Tabs - Orange - 8031926v1.0

**Issue date** 08-Feb-2013  
**Effective date** 01-Feb-2013  
**Prepared by** Reckitt Benckiser Regulatory Department 800-333-3899  
**Other information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.