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 Canadian Workplace Hazardous
Materials Information System (WHMIS).

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

Manufacturer information          Reckitt Benckiser (Canada) Inc.
                                 1680 Tech Avenue Unit #2
                                 Mississauga, ON L4W 5S9
                                 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

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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 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.
                           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, oedema, drying, defatting and cracking of the skin.
Potential environmental effects See section 12.
3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
<td>10 - 30</td>
</tr>
<tr>
<td>Alanine, Ú,Ú-bis(carboxymethyl)-, trisodium salt</td>
<td>164462-16-2</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Subtilisin carlsburg</td>
<td>9014-01-1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>a-Amylase (EC# 3.2.1.1)</td>
<td>9000-90-2</td>
<td>&lt;0.1</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures
- **Eye contact**: 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.
- **Skin contact**: Wash contaminated skin with soap and water. Get medical attention if symptoms occur.
- **Inhalation**: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.
- **Ingestion**: If swallowed, rinse mouth and drink a glass of water. DO NOT induce vomiting. Call a physician or Poison Control Center IMMEDIATELY. Never give anything by mouth to an unconscious person.

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

**Flammable properties**: Not flammable by WHMIS criteria.

**Extinguishing media**
- **Suitable extinguishing media**: Treat for surrounding material.
- **Unsuitable extinguishing media**: Not available

**Protection of firefighters**
- **Specific hazards arising from the chemical**: Not available
- **Protective equipment for firefighters**: Firefighters should wear full protective clothing including self contained breathing apparatus.

**Hazardous combustion products**: May include and are not limited to: Oxides of carbon. Oxides of sulphur. Oxides of nitrogen. Metal oxides.

**Explosion data**
- **Sensitivity to mechanical impact**: Not available.
- **Sensitivity to static discharge**: Not available.

6. Accidental Release Measures

**Personal precautions**: 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.

**Environmental precautions**: Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.

**Methods for containment**: Prevent entry into waterways, sewers, basements or confined areas. Stop leak if you can do so without risk.
Methods for cleaning up

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. Never return spills in original containers for re-use.

7. Handling and Storage

Handling

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.

Storage

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.
Do not expose to temperatures exceeding 40°C.
Avoid storage under direct sunlight.
Store upright to prevent product leakage.

8. Exposure Controls/Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subtilisin carlsburg (CAS 9014-01-1)</td>
<td>Ceiling</td>
<td>0.00006 mg/m3</td>
</tr>
</tbody>
</table>

Exposure limit values

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

Engineering controls

Ensure adequate ventilation.

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

Safety glasses with side-shields or full eye & face protection should be worn if risk assessment indicates this is necessary for the workplace or emergency responders. Emergency responders should wear full eye and face protection.

Hand protection

Chemical resistant, impervious gloves should be worn if risk assessment indicates this is necessary for the workplace or emergency responders. 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.

Respiratory protection

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.

General hygiene considerations

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.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Tablet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>White / Blue / Red</td>
</tr>
<tr>
<td>Form</td>
<td>Solid.</td>
</tr>
<tr>
<td>Odour</td>
<td>Various</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
Physical state  
Solid.

pH  
9.5 (10%)

Freezing point  
Not available.

Boiling point  
Not available.

Pour point  
Not available.

Evaporation Rate  
Not available

Flash point  
> 100.00 °C (> 212.00 °F) TOC

Auto-ignition temperature  
Not available.

Flammability Limits in Air, Upper, % by Volume  
Not available.

Flammability Limits in Air, Lower, % by Volume  
Not available.

Vapour pressure  
Not available.

Vapour density  
Not available.

Specific gravity  
Not available.

Partition coefficient (n-octanol/water)  
Not available.

Solubility (Water)  
Soluble

Relative density  
Not available.

Viscosity  
Not available.

VOC  
Not available

Percent volatile  
Not available

10. Stability and Reactivity

Reactivity  
This product may react with strong oxidizing agents.
This product may react with strong acids.

Possibility of hazardous reactions  
Hazardous polymerization does not occur.

Chemical stability  
Stable under recommended storage conditions.

Conditions to avoid  
Do not mix with other chemicals.
Do not mix with chlorine bleach.
Keep away from extreme heat.
Exposure to moisture.
Do not freeze.

Incompatible materials  
Oxidizers. Acids.

Hazardous decomposition products  
May include and are not limited to: Oxides of carbon. Oxides of sulphur. Oxides of nitrogen. Metal oxides.

11. Toxicological Information

Toxicological data

Components  
a-Amylase (EC# 3.2.1.1) (CAS 9000-90-2)

Acute  
Oral
LD50  
Rat
Test results  
>= 7500 mg/kg

LC50  
Not available.

Alanine, Û,Û-bis(carboxymethyl)-, trisodium salt (CAS 164462-16-2)

Acute  
Dermal
LD50  
Rat
Test results  
>= 2000 mg/kg

Oral  
LD50  
Rat
Test results  
>= 2000 mg/kg
Components | Species | Test results
--- | --- | ---
**Sodium carbonate (CAS 497-19-8)**

*Acute*
*Inhalation*
**LC50**
Guinea pig | 400 mg/m³
---
Mouse | 0.8 mg/L, 2 Hours
Rat | 2.3 mg/L, 2 Hours

*Oral*
**LD50**
Rat | 4090 mg/kg
---

**Sodium percarbonate (CAS 15630-89-4)**

*Acute*
*Dermal*
**LD50**
Rabbit | 2000 mg/kg
---

*Oral*
**LD50**
Mouse | 2200 mg/kg
Rat | 1034 mg/kg
---

**Subtilisin carlsburg (CAS 9014-01-1)**

**LC50**
Not available.
---

**LD50**
Not available.
---

**Effects of acute exposure**

*Eye contact*
Irritating to eyes.

*Skin contact*
Slightly irritating to the skin.

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

*Ingestion*
Harmful if swallowed.

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

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

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

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

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

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

**Name of Toxicologically Synergistic Products**
Not available.
---

### 12. Ecological Information

**Ecotoxicity**
See below
---

**Ecotoxicological data**

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate (CAS 497-19-8)</td>
<td><em>Aquatic</em></td>
<td></td>
</tr>
<tr>
<td></td>
<td><em>Crustacea</em></td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Components

<table>
<thead>
<tr>
<th>Fish</th>
<th>LC50</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Water flea (Ceriodaphnia dubia)</td>
<td>156.6 - 298.9 mg/L, 48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bluegill (Lepomis macrochirus)</td>
<td>300 mg/L, 96 hours</td>
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</table>

Sodium percarbonate (CAS 15630-89-4)

<table>
<thead>
<tr>
<th>Aquatic</th>
<th>EC50</th>
<th>Daphnia</th>
<th>4.9 mg/L, 48 Hours</th>
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</thead>
<tbody>
<tr>
<td>Crustacea</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence and degradability
- Not available.

Bioaccumulation/accumulation
- Not available.

Mobility in environmental media
- Not available.

Environmental effects
- Not available.

Aquatic toxicity
- Not available.

Chemical fate information
- Not available.

13. Disposal Considerations

Disposal instructions
- Dispose in accordance with all applicable regulations.
- Do not re-use empty containers.
- Empty container can be disposed of as household trash or rinsed and recycled where appropriate.

14. Transport Information

UN/ID N.o.
- Not applicable

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

<table>
<thead>
<tr>
<th>Proper shipping name</th>
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<tbody>
<tr>
<td>U.S. DOT Hazard Class</td>
<td>Not applicable</td>
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<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
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<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>DOT RQ (lbs)</td>
<td>Not applicable</td>
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<tr>
<td>ERG NO</td>
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Transportation of Dangerous Goods (TDG - Canada): Classification
- Not regulated

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Status</td>
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<tr>
<td>Packing group</td>
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</table>

IMDG (Marine Transport): Classification
- Not regulated

<table>
<thead>
<tr>
<th>Proper shipping name</th>
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<tbody>
<tr>
<td>Class</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Subsidiary Risk</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IMDG Page</td>
<td>Not applicable</td>
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<tr>
<td>Marine pollutant</td>
<td>Not applicable</td>
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<tr>
<td>EMS</td>
<td>Not applicable</td>
</tr>
<tr>
<td>MFAG</td>
<td>Not applicable</td>
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<tr>
<td>Maximum Quantity</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>
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

**15. Regulatory Information**

Canadian federal regulations: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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

Canada SNAC Reporting Requirements: Listed substance/Publication date
Alanine, Ú,Ú-bis(carboxymethyl)-, trisodium salt (CAS 164462-16-2) 11/01/2003 Listed.

Canada WHMIS Ingredient Disclosure: Threshold limits
Sodium carbonate (CAS 497-19-8) 1 %

WHMIS Classification: Exempt - Consumer product

Inventory Status:

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory Name</th>
<th>On Inventory (Yes/No)*</th>
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</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
</tbody>
</table>

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

**16. Other Information**

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 - 8032317v1.0
FINISH® POWERBALL® Tabs - Orange - 8081573v1.0

Issue date: 18-September-2013
Effective date: 15-September-2013
Expiry Date: 15-September-2016
Prepared by: Reckitt Benckiser Regulatory Department Phone: 800-333-3899

Other Information
For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.