

1. Product and Company Identification

Product Name FINISH® POWERBALL® Tabs - All Scents

CAS # Mixture

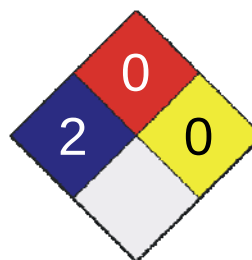
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS). This MSDS is not 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

Distributed by 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 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 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, oedema, drying, defatting and cracking of the skin.

Potential environmental effects

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

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
A-Amylase (EC# 3.2.1.1)	9000-90-2	< 0.1
Subtilisin carlsburg	9014-01-1	< 1
Alanine, Ú,Ú-bis(carboxymethyl)-, trisodium salt	164462-16-2	1 - 5
Sodium percarbonate	15630-89-4	10 - 30
Sodium carbonate	497-19-8	15 - 40

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 off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air.
Ingestion	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

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.
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.
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.

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. Store between 5°C and 30°C. Avoid storage under direct sunlight. Store upright to prevent product leakage.

8. Exposure Controls / Personal Protection

Exposure limit values	
Ingredient(s)	Exposure limit values
A-Amylase (EC# 3.2.1.1)	ACGIH-TLV Not established
Alanine, Ú,Ú-bis(carboxymethyl)-, trisodium salt	ACGIH-TLV Not established
Sodium carbonate	ACGIH-TLV Not established
Sodium percarbonate	ACGIH-TLV Not established
Subtilisin carlsburg	ACGIH-TLV Ceiling: 0.0001 mg/m ³
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.
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

Appearance	Tablet
Colour	White / Blue / Red

Form	Solid.
Odour	Various
Odour threshold	Not available
Physical state	Solid
pH	9.5 - 10.0 (10%)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	> 100 °C (> 212.00 °F) TOC
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not applicable
Flammability Limits in Air, Upper, % by Volume	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Soluble

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 polymerisation 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.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
A-Amylase (EC# 3.2.1.1)	Not available
Alanine, Ú,Ú-bis(carboxymethyl)-, 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
Alanine, Ú,Ú-bis(carboxymethyl)-, 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

Eye	Irritating to eyes.
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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.
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	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data		
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
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
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]
Ecotoxicity - Water Flea - Acute Toxicity Data		
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
Persistence and degradability	Not available	
Bioaccumulation/accumulation	Not available	
Mobility in environmental media	Not available	
Environmental effects	Not available	
Aquatic toxicity	Not available	
Partition coefficient	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

13. Disposal Considerations

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

14. Transport Information

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

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 - WHMIS - Ingredient Disclosure List

Sodium carbonate 497-19-8 1 %

WHMIS classification

Exempt - Consumer product

Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No

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 - 8031925v1.0
FINISH® POWERBALL® Tabs - Green Apple - 8031927v1.0
FINISH® POWERBALL® Tabs - Orange - 8031926v1.0

Issue date

08-Feb-2013

Effective Date

01-Feb-2013

Expiry Date

01-Feb-2016

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.