

MATERIAL SAFETY DATA SHEET

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

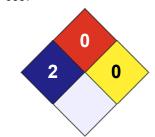
P.O. Box 225

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







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.

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 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

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

4				
First	aid	nrac	Δdii	rae

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.

If swallowed, rinse mouth and drink a glass of water. DO NOT induce vomiting. Call a physician or Ingestion

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 OSHA criteria.

Extinguishing media

Suitable extinguishing

media

Treat for surrounding material.

Unsuitable extinguishing

media

Not available

Not available

Protection of firefighters

Specific hazards arising

from the chemical

Protective equipment and

precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion

May include and are not limited to: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Metal oxides.

products

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.

Do not discharge into lakes, streams, ponds or public waters. **Environmental precautions**

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 to 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

US. ACGIH Threshold Limit Values

ComponentsTypeValueSubtilisin carlsburg (CAS
9014-01-1)Ceiling0.00006 mg/m3

Exposure limits Chemicals listed in section 3 that are not listed here do not have established limit values for

ACGIH or OSHA PEL.

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

Handle in accordance with good industrial hygiene and safety practice.

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 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

Color White / Blue / Red

Form Solid.
Odor Various
Odor threshold Not available.

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 > 212.00 °F (> 100.00 °C) Tag Open Cup

Auto-ignition temperature Flammability limits in air, upper, % by volume Not available. Not available.

Flammability limits in air,

lower, % by volume

Not available.

Vapor pressureNot available.Vapor densityNot available.Specific gravityNot available.Partition coefficientNot available.

(n-octanol/water)

0 . . .

Solubility (water)

Relative density

Viscosity

VOC

Not available.

Not available.

Not available

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 sulfur. Oxides of nitrogen. Metal

oxides.

11. Toxicological Information

Toxicological data

Components Species Test Results

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

Acute

Oral

LD50

Rat >= 7500 mg/kg

LC50

Not available.

Methyl glycine diacetic acid, trisodium salt (CAS 164462-16-2)

Acute

Dermal

LD50 Rat >= 2000 mg/kg

Oral

LD50 Rat >= 2000 mg/kg

Components	Species	Test Results	
LC50			
Not available.			
Sodium carbonate (CAS 497-1	9-8)		
Acute			
Inhalation LC50	Guinea pig	400 mg/m3	
	Guillea pig	<u> </u>	
		0.8 mg/l, 2 Hours	
	Mouse	1.2 mg/l, 2 Hours	
	Rat	2.3 mg/l, 2 Hours	
Oral			
LD50	Rat	4090 mg/kg	
Sodium percarbonate (CAS 15	630-89-4)		
Acute			
Dermal	Dahhit	2000 mm = //cm	
LD50	Rabbit	2000 mg/kg	
Oral	Mayee	2200 mm // cm	
LD50	Mouse	2200 mg/kg	
	Rat	1034 mg/kg	
LC50			
Not available.			
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 product Serious effects may be delayed for		
Ingestion	Harmful if swallowed.		
Sensitization	The finished product is not expect	ed to have c hronic health effects.	
Chronic effects	The finished product is not expect	ed to have chronic health effects.	
Carcinogenicity	The finished product is not expec	ed to have chronic health effects.	
Mutagenicity	The finished product is not expec	ed to have chronic health effects.	
Reproductive effects	The finished product is not expec	ted to have chronic health effects.	
Teratogenicity	The finished product is not expecte	ed to have chronic health effects.	
Name of Toxicologically Synergistic Products	Not available.		
	12. Ecological I	nformation	
Ecotoxicity	See below		

Ecotoxicity	See below		
Ecotoxicological data Components Sodium carbonate (CAS 497-19-8)		Species	Test Results
Aquatic	EC50	Daphnia	265 mg/L, 48 Hours

Components		Species Water flea (Ceriodaphnia dubia)	Test Results 156.6 - 298.9 mg/l, 48 hours	
Fish	LC50	Bluegill (Lepomis macrochirus)	300 mg/l, 96 hours	
Sodium percarbonate (CAS 1563	80-89-4)			
Aquatic				
Crustacea	EC50	Daphnia	4.9 mg/L, 48 Hours	
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	Dianage in accordance with all applicable regulations			

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.

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

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200

hazardous chemical

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Product Registration: Product is compliant with CPSC regulatory guidelines; a specific

registration is not required for this product.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

CERCLA (Superfund) reportable quantity

None

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

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

US - California Hazardous Substances (Director's): Listed substance

Subtilisin carlsburg (CAS 9014-01-1) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed

US - Texas Effects Screening Levels: Listed substance

Sodium carbonate (CAS 497-19-8) Listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

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)

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 date18-September-2013Effective date15-September-2013

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.