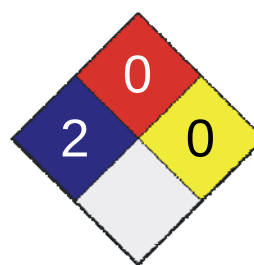


1. Product and Company Identification

Product Name	FINISH® Powder
UPC CODES	Refer to section 16
CAS #	Mixture
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: 1-800-228-4722 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	WARNING HARMFUL IF SWALLOWED. EYE IRRITANT. DO NOT ingest. DO NOT get in eyes. Contains Sodium Carbonate, Sodium Carbonate Peroxhydrate and enzymes. KEEP OUT OF REACH OF CHILDREN.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Eyes	Irritating to eyes.
Skin	None expected during normal conditions of use. Not expected to be a skin sensitizer.
Inhalation	May cause mild nasal irritation upon prolonged or repeated contact to the dust in occupational or emergency response situation.
Ingestion	Harmful if swallowed. Ingestion could cause irritation of the mouth and throat. Will cause burning in mouth and throat. Difficulty swallowing, excessive salivating in infants. Reddening and swelling of mucous membranes of mouth and throat.
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.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium carbonate	497-19-8	30 - 60
Silicic acid, sodium salt	1344-09-8	1 - 5
Sodium percarbonate	15630-89-4	< 2.5
Subtilisin carlsburg	9014-01-1	< 0.01

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. Call a physician or Poison Control Centre.
Notes to physician	Contains Sodium Carbonate, Sodium Carbonate Peroxhydrate and enzymes. 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
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.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	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.
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	Avoid contact with eyes. Do not ingest. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
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.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Silicic acid, sodium salt	ACGIH-TLV Not established OSHA-PEL Not established
Sodium carbonate	ACGIH-TLV Not established OSHA-PEL Not established
Sodium percarbonate	ACGIH-TLV Not established OSHA-PEL Not established
Subtilisin carlsburg	ACGIH-TLV Ceiling: 0.0001 mg/m3 OSHA-PEL Not established

Engineering controls

General ventilation normally adequate.

Personal protective equipment

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	Powder
Color	White / Blue
Form	Solid.
Odor	Perfume
Odor threshold	Not available
Physical state	Solid
pH	10.8 ± 0.2 (10%)
Freezing point	Not available
Pour point	Not available
Boiling point	Not available
Flash point	Product does not flash
Evaporation rate	Not available

Flammability limits in air, lower, % by volume	Not applicable
Flammability limits in air, upper, % by volume	Not applicable
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.2
Octanol/water coefficient	Not available
Auto-ignition temperature	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Do not mix with chlorine bleach.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of sulphur.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Silicic acid, sodium 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
Silicic acid, sodium salt	1153 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.
Skin	None expected during normal conditions of use. Not expected to be a skin sensitizer.
Inhalation	May cause mild nasal irritation upon prolonged or repeated contact to the dust in occupational or emergency response situation.
Ingestion	Harmful if swallowed. Ingestion could cause irritation of the mouth and throat. Will cause burning in mouth and throat. Difficulty swallowing, excessive salivating in infants. Reddening and swelling of mucous membranes of mouth and throat.

Sensitization 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.

Synergistic Materials Not available

12. Ecological Information

Ecotoxicity See below

Ecotoxicity - Freshwater Algae 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 Species Data

Silicic acid, sodium salt	1344-09-8	96 Hr LC50 Lepomis macrochirus: 301-478 mg/L; 96 Hr LC50 Brachydanio rerio: 3185 mg/L [semi-static]
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 Data

Silicic acid, sodium salt	1344-09-8	96 Hr EC50 Daphnia magna: 216 mg/L
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

Environmental effects Not available

Aquatic toxicity Not available

Persistence / degradability Not available

Bioaccumulation / accumulation Not available

Partition coefficient Not available

Mobility in environmental media Not available

Chemical fate information Not available

13. Disposal Considerations

Waste codes Not available

Disposal instructions Dispose in accordance with all applicable regulations.

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

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: Not registered

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

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

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Air Act (CAA) Not available

Clean Water Act (CWA) Not available

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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)

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 51700-79328 - 50 oz. - FINISH® Powder Lemon Fresh - 0237266
51700-78234 - 75 oz. - FINISH® Powder Lemon Fresh - 0237266
51700-79347 - 75 oz. - FINISH® Powder Orange Fresh - 0237266

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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.