

PRODUCT SAFETY DATA SHEET



1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY IDENTIFICATION.

Trade Name:

FINISH Professional - Powerball Tablets – Regular

Product Format:

Tablets

Product Use:

Detergent for use in domestic automatic dishwashers

Supplier in UK:

Reckitt Benckiser
Wellcroft House
Wellcroft Road
Slough,
Berkshire
SL1 4AQ

Supplier in The Republic Of Ireland:

Reckitt Benckiser Ireland Ltd
7 Riverwalk
Citywest Business Campus
Dublin 24
Ireland

Contact Telephone: 0845 769 7079

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Contact Email: consumer.relations-ukroi@reckittbenckiser.com

Date Issued:	RB Ref No:	Issue:	RB parent code:	Revisions:
17 Jan 2011	3522122002	2	D0012172 v6 + 0013533 v6	Revised Address

2. HAZARDS IDENTIFICATION.

In accordance with local and national regulations: The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Symbol(s) Xi - Irritant

Most important hazards

R -phrase(s): R41 - Risk of serious damage to eyes.



3. COMPOSITION / INFORMATION ON INGREDIENTS.

Chemical nature of the preparation This product contains:

Chemical Name	CAS#	EINECS/ ELINCS	REACH No.	Proportion (% w/w)	Classification
Sodiumtripolyphosphate	7758-29-4	231-838-7		30 % - 60 %	unclassified
Sodium carbonate	497-19-8	207-838-8		15 % - 30 %	Xi;R36
Sodium percarbonate	15630-89-4	239-707-6		5 % - 10 %	O;R8 Xi;R41 Xn;R22 Xi;R38
Sodium Disilicate	1344-09-8	215-687-4		< 2.5 %	Xi;R41
Citric acid	77-92-9	201-069-1		< 2.5 %	Xi;R36
Alcohols, C12-18, ethoxylated propoxylated	69227-21-0	500-242-1		0.1 % - 1 %	Xi;R38 N;R50
Subtilisin	9014-01-1	232-752-2		< 0.1 %	Xi;R37/38-41 R42
Alpha Amylase	9000-90-2	232-565-6		< 0.1 %	R42

Other ingredients may be present as being disclosed by the ingredient declaration on package.

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST-AID MEASURES.

Immediate medical attention: Immediate medical attention is required in case of contact with eyes

General Advice Show this safety data sheet to the doctor in attendance. If any symptoms persist, call a physician.

Skin Contact Wash off immediately with plenty of water.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. Do not induce vomiting. Consult a physician.

Notes to Physician Treat symptomatically.

Protection of First-aiders Use personal protective equipment.

5. FIRE-FIGHTING MEASURES.

- Flash point:** See chapter 9
- Suitable Extinguishing Media:** The product is not flammable. All extinguishing media can be used.
- Precautions for Fire Fighters:** Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES.

- Personal Precautions:** Use personal protective equipment.
Avoid contact with the skin and the eyes
- Environmental Precautions:** Do not flush with water.
Prevent product from entering drains.
Local authorities should be advised if significant spillages cannot be contained.
- Methods for Cleaning up:** Mop up spill and wash area with detergent and water.
Do not flush into surface water.
Prevent product from entering drains.

7. HANDLING AND STORAGE.

- Handling:** Ensure adequate ventilation.
Wear personal protective equipment
- Storage:** Keep containers tightly closed in a cool, well-ventilated place
Keep in properly labeled containers
Keep at temperatures below 40 °C / 104 °F.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Chemical Name	Norway - OEL	UK - OES	Portugal - OEL	Spain - OEL	Sweden - OEL	Austria - OEL
Subtilisin 9014-01-1		= 0.00012 mg/m ³ STEL = 0.00004 mg/m ³ TWA	Ceiling: 0.00006 mg/m ³	VLA-EC: 0.00006	LLV: 3 glycineunit/m ³ LLV: 1 glycineunit/m ³	

Occupational exposure controls

- Engineering Controls:** Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

- Respiratory Protection:** No special protective equipment required
- Eye Protection** Tightly fitting safety goggles
- Hand Protection:** Protective gloves
Permeation level 6, Penetration level 3 following EN374, taking into consideration the exposure of chemicals given in chapter 3.



Skin and Body Protection: Usual safety precautions while handling the product will provide adequate protection against injury or irritation. Follow product label instructions.

Hygiene measures When using, do not eat, drink or smoke.

Environmental exposure controls
Do not allow material to contaminate ground water system

Environmental exposure controls
Local authorities should be advised if significant, large quantity spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES.

Physical State:	Solid.
Appearance:	Tablet
Colour:	Blue. White Red
Odour:	perfumed, typical to meet the Tradename descriptor
pH	10.5 (10%)
Interpretation of reserve	not irritant, not corrosive
Boiling Point/Range:	No information available
Melting Point/Range	No information available
Specific Gravity / Density [g/L]:	18.84g
Flash Point:	Not applicable



10. STABILITY AND REACTIVITY.

Stability	Stable under normal conditions.
Conditions to Avoid:	Strong sunlight for prolonged periods. Avoid temperatures above 40 °C /104 °F.
Hazardous Polymerization:	No information available.

11. TOXICOLOGICAL INFORMATION.

PRODUCT TOXICITY DATA

LD₅₀ Oral:	5561.492 mg/kg (rat)
LD₅₀ Dermal:	8644.555 mg/kg (rat) estimated
LC₅₀ Inhalation (Dust):	4690.623 mg/L estimated (dust) mg/m ³
LC₅₀ Inhalation (Vapor):	2382.157 ml/m ³ (vapor) estimated

Acute Effects:

Eye Irritation	Risk of serious damage to eyes.
Skin Irritation	None expected during normal conditions of use.
Inhalation	May cause sensitization by inhalation.
Ingestion	Health injuries are not known or expected under normal use.
Sensitization	Not expected to be a skin sensitiser.

Specific Effects

Carcinogenic Effects:	Not listed as carcinogenic by OSHA, NTP or IARC.
Mutagenic Effects	No information available.
Reproductive Toxicity:	No information available.
Additional Toxicity Information:	Information is based on available component data and toxicity result of similar products.



COMPONENT TOXICITY DATA

Chemical Name	CAS#	LD50 Oral - With Units - Rat - mg/kg	LD50 Dermal - With Units - Rat/Rabbit - mg/kg	LC50 Inhalation - With units - Rat/Rabbit
Sodiumtripolyphosphate	7758-29-4	3100 mg/kg (Rat)	7940 mg/kg (Rabbit)	
Sodium carbonate	497-19-8	4090 mg/kg (Rat)		
Sodium percarbonate	15630-89-4	1034 mg/kg (Rat)		
Sodium Disilicate	1344-09-8	> 2000 mg/kg (Rat)	4640 mg/kg (Rabbit)	
Citric acid	77-92-9	6730 mg/kg (Rat)		
Alcohols, C12-18, ethoxylated propoxylated	69227-21-0	> 2000 mg/kg (Rat)		
Subtilisin	9014-01-1	3700 mg/kg (Rat)		
Alpha Amylase	9000-90-2	7500 mg/kg (Rat)		

12. ECOLOGICAL INFORMATION.

Ecotoxicity:

Ecological Information:

Release of large quantities into water may cause a pH-change resulting in danger for aquatic life.. Indication of danger to water:
 - Germany: WGK = 2 (for bulk material).
 Not applicable for product in domestic type pack sizes.

PRODUCT TOXICITY DATA

Aquatic toxicity: No information available

COMPONENT TOXICITY DATA

Sodiumtripolyphosphate

Freshwater Algae -
Freshwater Fish -
Microtox -
Water Flea -

Sodium carbonate

Freshwater Algae EC50 = 242 mg/L 120 h
Freshwater Fish LC50 = 300 mg/L *Lepomis macrochirus* 96 h
Microtox -
Water Flea EC50 = 265 mg/L 48 h

Sodium percarbonate

Freshwater Algae EC50 = 70 mg/L 240 h
Freshwater Fish LC50 = 70.7 mg/L *Pimephales promelas* 96 h
Microtox -
Water Flea EC50 = 4.9 mg/L 48 h



Sodium Disilicate

Freshwater Algae	-
Freshwater Fish	LC50 301 - 478 mg/L <i>Lepomis macrochirus</i> 96 h LC50 = 3185 mg/L <i>Brachydanio rerio</i> 96 h
Microtox	-
Water Flea	EC50 = 216 mg/L 96 h

Citric acid

Freshwater Algae	-
Freshwater Fish	LC50 = 1516 mg/L <i>Lepomis macrochirus</i> 96 h LC50 = 440 mg/L <i>Leuciscus idus</i> 96 h
Microtox	EC50 = 14 mg/L 15 min
Water Flea	EC50 = 120 mg/L 72 h

Alcohols, C12-18, ethoxylated propoxylated

Freshwater Algae	EC50 (72h): 1-10 mg/L
Freshwater Fish	LC50 (96h): 10-100 mg/L
Microtox	-
Water Flea	EC50 (48h): 1-10 mg/L

Subtilisin

Freshwater Algae	-
Freshwater Fish	-
Microtox	-
Water Flea	-

Alpha Amylase

Freshwater Algae	-
Freshwater Fish	-
Microtox	-
Water Flea	-

Other Information

Ozone Depletion Potential (ODP) (R-11 = 1): No information available.

Global Warming Potential (GWP): No information available.

Additional Ecological Information: Contained surfactants are ultimately biodegradable according to the EU Detergent Regulation, 648/2004.



13. DISPOSAL CONSIDERATIONS.

Disposal Methods and Containers:	Bulk quantities of product must be disposed of according to Local, State and Federal regulations.
Special Precautions for Landfill or Incineration:	No information available
Contaminated Packaging:	Offer rinsed packaging material to local recycling facilities.
Further information:	Packaging and container to be recycled only if emptied completely!
EWC waste disposal No:	20 01 29 (detergents containing dangerous substances)

14. TRANSPORT INFORMATION.

General remarks	Not classified as dangerous for transport regulations. For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated

15. REGULATORY INFORMATION.

Chemical safety assessment following regulation 1907/2006/EC: Chemical safety assessment following regulation 1907/2006/EC: not relevant.

In accordance with local and national regulations: The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Labelling

Symbol(s) **Xi - Irritant**



R -phrase(s) R41 - Risk of serious damage to eyes

S -phrase(s) S 2 - Keep out of the reach of children
 S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
 S39 - Wear eye/face protection
 S46 - If swallowed, seek medical advice immediately and show this container or label
 S35 - This material and its container must be disposed of in a safe way

16. OTHER INFORMATION.

Text of R phrases mentioned in Section 3

- R36 - Irritating to eyes.
- R 8 - Contact with combustible material may cause fire.
- R38 - Irritating to skin.
- R41 - Risk of serious damage to eyes.
- R22 - Harmful if swallowed.
- R50 - Very toxic to aquatic organisms.

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

Voluntary Labelling Consumer Information using one or more icons following the A.I.S.E. Charter for Sustainable Development may be displayed on packages additionally





The Product Identification Code (in Section 1) is in conformance with EN 15178 for the identification of products in emergency enquiries.

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.