

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY IDENTIFICATION.

Trade Name:

FINISH Professional - Powerball Tablets

Product Format:

Automatic Dishwashing Detergent

Product Use:

Detergent for use in domestic automatic dishwashers

Supplier in UK

Reckitt Benckiser (Household) Ltd
Delta Business Park
1200 Welton Road
Swindon
Wiltshire
SN5 7XZ

tel: 0845 7697079

Distributor In Republic Of Ireland:

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

tel: 01 661 7318

Date Issued

9th September
08

Reference

D0012172 v8

Issue

1

Changes

New product

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.

Contains Subtilisins (proteolytic enzymes) . May produce an allergic reaction.

3. COMPOSITION/INFORMATION ON INGREDIENTS.

Chemical nature of the preparation Detergent for domestic use

| Chemical Name | CAS No. | EINECS/ ELINCS | REACH No. | Proportion (% w/w) | Classification |
|--|------------|-------------------|-----------|-----------------------|------------------------------------|
| Pentasodium triphosphate | 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 silicate | 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 and propoxylated | 69227-21-0 | 500-242-1 | | 0.1 % - 1 % | Xi;R38 N;R50 |
| Subtilisins (proteolytic enzymes) | 9014-01-1 | 232-752-2 | | < 0.1 % | Xn;R42 Xi;R41-37-38 |
| AMYLASE | 9000-90-2 | 232-565-6 | | < 0.1 % | Xn;R42 |

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

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

Polycarboxylates, TAED, Phosphonates, Colourants, Perfume, Limonene.

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. |
| Eye Contact | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| Skin Contact | Wash off immediately with plenty of water. |
| 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.

| | |
|--|---|
| Suitable Extinguishing Media: | The product is not flammable. All extinguishing media can be used. |
| Precautions for Fire Fighters: | Standard procedure for chemical fires. |
| Special Protective Equipment for Fire Fighters: | Wear self-contained breathing apparatus and protective clothing appropriate for fighting a chemical fire. |

6. ACCIDENTAL RELEASE MEASURES.

| | |
|---|---|
| Emergency and Evacuation Procedures: | Ensure adequate ventilation. |
| Personal Precautions | Use personal protective equipment. Avoid contact with the skin and the eyes |
| Environmental Precautions: | Prevent further leakage or spillage if safe to do so. 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. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so |

7. HANDLING AND STORAGE.

| | |
|-------------------------------|--|
| HANDLING | Ensure adequate ventilation. Wear personal protective equipment Use only in area provided with appropriate exhaust ventilation |
| Storage: | Keep containers tightly closed in a cool, well-ventilated place Keep in properly labeled containers |
| Storage Classification | 13 (=Non-combustible solids, following German VCI-concept) |

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

| Chemical Name | EU | Germany TRGS900: | German mak: | France - OEL | Belgium - OEL | Netherlands - OEL |
|--|----|------------------|-------------|--------------|---------------|---|
| Subtilisins (proteolytic enzymes) 9014-01-1 | | | | | | Ceiling: 0.00006 mg/m ³ Ceiling |

| Chemical Name | Norway - OEL | UK - OES | Portugal - OEL | Spain - OEL | Sweden - OEL | Austria - OEL |
|--|--------------|----------|---------------------------------------|---|--|---------------|
| Subtilisins (proteolytic enzymes) 9014-01-1 | | | Ceiling: 0.00006 mg/m ³ | VLA-EC: 0.00006 mg/m ³ VLA-EC | LLV: 1 glycineunit/m ³ LLV: 3 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.

Environmental exposure controls Do not allow material to contaminate ground water system
Hygiene measures When using, do not eat, drink or smoke.

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: | Characteristic. |
| pH | 10.5 (10%) |
| Interpretation of reserve | not irritant, not corrosive. |
| Boiling Point/Range: | No information available |
| Melting Point/Range | No information available |
| Flash Point: | No information available |
| Viscosity: | Not applicable |

10. STABILITY AND REACTIVITY.

| | |
|----------------------------|--|
| Stability | Stable under recommended storage conditions. |
| Conditions to Avoid | Protect from water. Temperatures above 40 °C / 104 °F for a long period of time. |

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/m³
LC₅₀ Inhalation (Vapor): 2382.157 ml/m³ (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
Chronic Effects: No information available.

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 No. | LD50 Oral - With Units - Rat - mg/kg | LD50 Dermal - With Units - Rat/Rabbit - mg/kg |
|--|------------|--------------------------------------|---|
| Pentasodium triphosphate | 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 silicate | 1344-09-8 | > 2000 mg/kg (Rat) | |
| Citric acid | 77-92-9 | 6730 mg/kg (Rat) | |
| Alcohols, C12-18, ethoxylated and propoxylated | 69227-21-0 | > 2000 mg/kg | |
| Subtilisins (proteolytic enzymes) | 9014-01-1 | 3700 mg/kg (Rat) | |
| AMYLASE | 9000-90-2 | 7500 mg/kg (Rat) | |

12. ECOLOGICAL INFORMATION.

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

Pentasodium triphosphate

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 silicate

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

Citric acid

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

Alcohols, C12-18, ethoxylated and 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

Subtilisins (proteolytic enzymes)

Freshwater Algae -
Freshwater Fish -
Microtox -
Water Flea -

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. |
| EWC waste disposal No | 20 01 29 (detergents containing dangerous substances) |

14. TRANSPORT INFORMATION.

| | |
|------------------------|--|
| General remarks | Not classified as dangerous for transport. For long distance transport of bulk material or shrinked pallets take into consideration sections 7 and 10. |
| ICAO | Not regulated |
| IATA | Not regulated |
| IMDG/IMO | Not regulated |
| RID | Not regulated |
| ADR | Not regulated |
| ADN | Not regulated |

15. REGULATORY INFORMATION.

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

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Labelling

Contains Subtilisins (proteolytic enzymes) . May produce an allergic reaction.

Symbol(s) Xi - Irritant

Xi



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.

Risk Phrases:

- 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.

Reason for revision: Revised hazard classification.

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



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.