



SAFETY DATA SHEET

Enzyme Powder

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Enzyme Powder
Product number 7919/21892

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Detergent. Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier Cole & Wilson Ltd
 Nabbs Lane Chemical Works
 Nabbs Lane
 Slaithwaite
 Huddersfield
 HD7 5AT
 01484 842353
 info@coleandwilson.com

1.4. Emergency telephone number

Emergency telephone Tel; 01274 393286, Fax; 01274 309143

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Met. Corr. 1 - H290
Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 3 - H335
Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) C;R34. Xi;R37.

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.

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Precautionary statements	<p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	DISODIUM METASILICATE, Sodium Percarbonate Peroxyhydrate, PEG-7-C10 Oxo Alcohol
Detergent labelling	5 - < 15% phosphates, < 5% non-ionic surfactants, < 5% optical brighteners, < 5% oxygen-based bleaching agents
Supplementary precautionary statements	<p>P234 Keep only in original container.</p> <p>P260 Do not breathe vapour/ spray.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P312 Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P390 Absorb spillage to prevent material damage.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P406 Store in corrosive resistant/... container with a resistant inner liner.</p>

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DISODIUM METASILICATE	30-50%
CAS number: 6834-92-0	EC number: 229-912-9
	REACH registration number: 01-2119449811-37-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)
Met. Corr. 1 - H290	C;R34 Xi;R37
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
SODIUM CARBONATE	15-30%
CAS number: 497-19-8	EC number: 207-838-8
	REACH registration number: 01-2119485498-19-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)
Eye Irrit. 2 - H319	Xi;R36

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Sodium Percarbonate Peroxyhydrate			1-5%
CAS number: 15630-89-4	EC number: 239-707-6	REACH registration number: 01-2119457268-30-XXXX	
Classification		Classification (67/548/EEC or 1999/45/EC)	
Ox. Sol. 2 - H272		Xn;R22. Xi;R41. O;R8.	
Acute Tox. 4 - H302			
Eye Dam. 1 - H318			
PEG-7-C10 Oxo Alcohol			1-5%
CAS number: 68439-45-2			
Classification		Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302		Xn;R22. Xi;R41.	
Eye Dam. 1 - H318			

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Get medical attention if any discomfort continues. Move affected person to fresh air at once.
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. DO NOT induce vomiting. Get medical attention immediately. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Give milk instead of water if readily available.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention promptly if symptoms occur after washing. Chemical burns must be treated by a physician.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Severe irritation of nose and throat.
Ingestion	May cause chemical burns in mouth and throat.
Skin contact	Burns can occur.
Eye contact	Severe irritation, burning and tearing. Corneal damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media suitable for the surrounding fire.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Does not decompose when used and stored as recommended.

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5.3. Advice for firefighters

Protective actions during firefighting If risk of water pollution occurs, notify appropriate authorities. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb in vermiculite, dry sand or earth and place into containers. Provide adequate ventilation. Neutralise spilled material with diluted hydrochloric acid. Do not touch or walk into spilled material.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Corrosive storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

DISODIUM METASILICATE

Short-term exposure limit (15-minute): 2 mg/m³

SODIUM CARBONATE

Long-term exposure limit (8-hour TWA): WEL 5 mg/m³ resp.dust

WEL = Workplace Exposure Limit

SODIUM CARBONATE (CAS: 497-19-8)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Workers - Inhalation; Long term local effects: 10 mg/m³

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Sodium Percarbonate Peroxyhydrate (CAS: 15630-89-4)

DNEL	<p>Industry - Inhalation; Long term local effects: 5 mg/m³</p> <p>Industry - Dermal; Long term local effects: 12.8 mg/cm³</p> <p>Industry - Dermal; Long term local effects: 12.8</p> <p>Consumer - Dermal; Short term local effects: 6.4 mg/cm³</p> <p>Consumer - Dermal; Long term local effects: 6.4 mg/cm³</p>
PNEC	<p>- Fresh water; 0.035 mg/l</p> <p>- Marine water; 0.035 mg/l</p> <p>- Water, Intermittent release; 0.035 mg/l</p> <p>- STP; 16.24 mg/l</p>

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

No specific ventilation requirements.

Eye/face protection

The following protection should be worn: Chemical splash goggles.

Hand protection

Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Polyethylene. Polyvinyl chloride (PVC).

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station and safety shower.

Hygiene measures

Do not eat, drink or smoke when using this product.

Respiratory protection

Use Dust Masks to BS2091 Type B or equivalent. Particulate filter, type P2.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Granules.
Colour	White/off-white.
Odour	Odourless.
pH	pH (diluted solution): 11.2-12.2 1%
Solubility(ies)	Soluble in water.

9.2. Other information

Other information	Not determined.
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SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Acids. Strong oxidising agents. Strong reducing agents.
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10.2. Chemical stability

Stability	Avoid the following conditions: Avoid contact with acids.
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10.3. Possibility of hazardous reactions

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Possibility of hazardous reactions Not determined. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with the following materials: Oxidising agents. Reducing agents. Avoid contact with acids.

10.5. Incompatible materials

Materials to avoid Strong acids.

10.6. Hazardous decomposition products

Hazardous decomposition products Does not decompose when used and stored as recommended.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 11,605.35

Inhalation May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion May cause chemical burns in mouth, oesophagus and stomach. Swallowing concentrated chemical may cause severe internal injury.

Skin contact Causes severe burns.

Eye contact This product is strongly corrosive. Causes severe skin burns and eye damage. Immediate first aid is imperative.

Toxicological information on ingredients.

DISODIUM METASILICATE

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,001.0

Species Rat

ATE dermal (mg/kg) 5,001.0

Reproductive toxicity

Reproductive toxicity - fertility - NOAEL >159 mg/kg/day, , Rat

Reproductive toxicity - development Developmental toxicity: - NOAEL: >200 mg/kg/day, , Mouse

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 227 mg/kg/day, Oral, Rat NOAEL 260 mg/kg/day, Oral, Mouse

SODIUM CARBONATE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,800.0

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Species Rat
ATE oral (mg/kg) 2,800.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rabbit

Sodium Percarbonate Peroxyhydrate

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,034.0

Species Rat

ATE oral (mg/kg) 1,034.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,001.0

Species Rat

ATE dermal (mg/kg) 2,001.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 1,200.0

Species Rat

ATE inhalation (dusts/mists mg/l) 1,200.0

PEG-7-C10 Oxo Alcohol

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 501.0

Species Rat

ATE oral (mg/kg) 501.0

SECTION 12: Ecological Information

Ecotoxicity Low acute toxicity to aquatic organisms.

12.1. Toxicity

Toxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

Ecological information on ingredients.

DISODIUM METASILICATE

Acute toxicity - fish LC₅₀, 96 hours: 124 (24h - Brachydanio rerio) mg/l, Fish

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Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 300 (24h) mg/l, Daphnia magna

SODIUM CARBONATE

Acute toxicity - fish LC₅₀, 96 hours: 300 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 200-227 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: >2420 mg/l, Algae

Sodium Percarbonate Peroxyhydrate

Acute toxicity - fish LC₅₀, 96 hours: 70.7 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 4.9 mg/l, Daphnia magna

PEG-7-C10 Oxo Alcohol

Acute toxicity - fish LC₅₀, 96 hours: 10-100 mg/l, Fish

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 10-100 mg/l, Daphnia magna

Acute toxicity - aquatic plants IC₅₀, 72 hours: 10-100 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility Not applicable.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

EURAL Code

SECTION 14: Transport information

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Road transport notes TREM CARD: A3

14.1. UN number

UN No. (ADR/RID) 3253

14.2. UN proper shipping name

Proper shipping name DISODIUM TRIOXOSILICATE mixture
(ADR/RID)

Proper shipping name (IMDG) DISODIUM TRIOXOSILICATE mixture

Proper shipping name (ICAO) DISODIUM TRIOXOSILICATE mixture

Proper shipping name (ADN) DISODIUM TRIOXOSILICATE mixture

14.3. Transport hazard class(es)

ADR/RID class 8

Transport labels



14.4. Packing group

ADR/RID packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not relevant.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments Revision is in accordance with Commission Regulation (EC) No 1272/2008

Revision date 11/08/2016

Revision 1

SDS number 21892

Enzyme Powder

Risk phrases in full

R22 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R41 Risk of serious damage to eyes.
R8 Contact with combustible material may cause fire.

Hazard statements in full

H272 May intensify fire; oxidiser.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.