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**PREMWASH 200****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

Trade name: Premwash 200

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

Manufacture of textiles

**Uses advised against**

No information available at present.

**1.3 Details of the supplier of the safety data sheet**

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Emergency telephone number: The poison information center 114

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)**

Hazard class	Hazard category	Hazard statement
Resp. Sens.	1	H334-May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**2.1.2 Classification according to Directives 67/458/EEC and 1999/45/EC (including amendments).**

Sensitizing, R42

**2.2 Label elements****2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)**

Danger

H334- May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
P261- Avoid breathing vapours or spray.  
P284- Wear respiratory protection.  
P304+P340- IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P342+P311- If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

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**2.3 Other hazards**

If applicable in this section are given hazards which are not part of the overall classification but can contribute to the hazards which may be associated with the substance or mixture.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance**

n.a.

**3.2 Mixture**

<b>Enzymatic proteins (by-product, not otherwise specified)</b>	
EINECS, ELINCS, NLP	–
CAS	Cas n.v.
Content%	1-5
Classification according to Directive 67/548/EEC	Sensitizing, R42
Classification according to Regulation (EC) 1272/2008 (CLP)	Resp. Sens. 1, H334

<b>Cellulase</b>	
EINECS, ELINCS, NLP	232-734-4
CAS	Cas 9012-54-8
Content%	1-5
Classification according to Directive 67/548/EEC	Sensitizing, R42
Classification according to Regulation (EC) 1272/2008 (CLP)	Resp. Sens. 1, H334

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

- Inhalation:** Remove person from danger area.  
Supply person with fresh air and consult doctor according to symptoms.
- Eye contact:** Remove contact lenses.  
Wash thoroughly for several minutes using copious water.  
Seek medical help if necessary.
- Skin contact:** Wash thoroughly using copious water-remove contaminated clothing immediately.  
If skin irritation occurs (redness etc.), consult doctor.
- Ingestion:** Rinse the mouth thoroughly with water.  
Give copious water to drink. Consult doctor if necessary.

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

irritation of the eyes

With long-term contact:

Irritation of the skin.

Sensitive individuals:

Allergic reaction

In case of sensitivity, concentrations below the limit value may already result in asthmatic symptoms.

Respiratory distress

Delayed effects from exposure can be expected.

**4.3 Indication of any immediate medical attention and special treatment needed:**

n.c.

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1 Suitable extinguishing media:**

Water jet spray/alcohol resistant foam/CO2/dry extinguisher

**Unsuitable extinguishing media** High volume water jet.

**5.2 Special hazards arising from the substance or mixture:**

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic pyrolysis products.

**5.3 Advice for firefighters**

In case of fire and /or explosion do not breathe fumes.

Protective respirator with independent air supply.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure sufficient supply of air. Avoid inhalation, and contact with eyes or skin. If applicable, caution-risk of slipping

**6.2 Environmental precautions**

If leakage occurs, dam up. Prevent from entering drainage system.

Inform the competent authorities when water or canalisation has been infiltrated.

**6.3 Methods and material for containment and cleaning up**

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Flush residue using copious water. Clean soiled bottles immediately.

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**6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Ensure good ventilation. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. No contact with products of this type in case of allergies, asthma and chronic respiratory tract disorders. Observe directions on label and instructions for use. Use working methods according to operating instructions. General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep out of access to unauthorised individuals. Store product closed and only in original pcking. Not to be stored in gangways or stair wells. Store cool. Do not store over 10 °C.

**7.3 Specific end use(s)**

No information available at present.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

–

**8.2 Exposure controls**

**8.2.1 Appropriate engineering controls**

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

**8.2.2 Individual protection measures, such as personal protective equipment**

General hygiene measures for the handling of chemicals are listed here.

Wash hands before breaks and at end of work.

Keep away from food, drik and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

**Eye protection:** Tight fitting protective goggles with side protection (EN 166)

**Hand protection:** Rubber gloves (EN 374)

Protective nitrile gloves (EN 374)

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**Skin protection:** Protective working garments (e.g. Safety shoes EN ISO 20345, long-sleeved protective working garments)

**Respiratory protection:** Normally not necessary.  
If fumes build up, use suitable breathing mask.  
with formation of mist.  
Filter A2P2 (EN 14387), code clour brown, white  
Observe wearing time limitations for respiratory protection equipment.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Physical state:** Solid, powder  
**Colour:** Light cream  
**Odour:** Characteristic  
**Solubility in water:** Not determined  
**Melting point/freezing point:** Not determined  
**Initial boiling point and boiling range:** Not determined  
**Flash point:** Not determined  
**Evaporation rate:** Not determined  
**Water solubility:** Mixable  
**Viscosity:** Not determined

**9.2 Other information**

**Miscibility:** Not determined  
**Fat solubility / solvent:** Not determined  
**Conductivity:** Not determined

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

The product has not been tested.

**10.2 Chemical stability**

Stable with proper storage and handling.

**10.3 Possibility of hazardous reactions**

No dangerous reactions are known.

No decomposition if used as intended.

**10.4 Conditions to avoid**

See also section 7.

Strong heat

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**10.5 Incompatible materials**

Avoid contact with other chemicals. Avoid contact with oxidizing agents. Avoid contact with strong alkalis.

Avoid contact with strong acids.

**10.6 Hazardous decomposition products**

See also section 5.2

No decomposition when used as directed.

**SECTION 11: TOXICOLOGICAL INFORMATION**

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Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a
Acute toxicity, by dermal route:						n.d.a
Acute toxicity, by inhalation:						n.d.a
Skin corrosion/irritation:						n.d.a
Serious eye damage/irritation:						n.d.a
Respiratory or skin sensitisation:						n.d.a
Germ cell mutagenicity:						n.d.a
Carcinogenicity:						n.d.a
Reproductive toxicity						n.d.a
Specific target organ toxicity-single exposure (STOT-SE):						n.d.a
Specific target organ toxicity-repeated exposure (STOT-RE):						n.d.a
Aspiration hazard:						n.d.a
Respiratory tract irritation:						n.d.a
Repeated dose toxicity:						n.d.a
Symptoms:						n.d.a

Cellulase						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat		
Skin corrosion/irritation:					OECD 404 (Acute dermal Irritation)	Not irritant
Serious eye damage/irritation:					OECD 405 (Acute eye Irritation/Corrosion)	Not irritant

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Respiratory or skin sensitisation:						Yes (inhalation) Experiences on persons
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation test)	Negative
Aspiration hazard:						No
Symptoms:						asthmatic symptoms, breathing difficulties

**SECTION 12: ECOLOGICAL INFORMATION**

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Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish							n.d.a
Toxicity to daphnia							n.d.a
Toxicity to algae							n.d.a
Persistence and Bioaccumulative							Biodegradable n.d.a
Mobility in soil							n.d.a
Result of PBT and vPvB							n.d.a
Other adverse effects							n.d.a

Cellulase							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish	LC50	96h	>39,5	mg/l		OECD 203 (fish, acute toxicity test)	
Toxicity to daphnia	EC50	48 h	>39,5	mg/l		OECD 202 (daphnia sp. Acute immobilisation test)	
Persistence and degradability						OECD 301 B (Ready biodegradability- Co2 evolution test)	Readily biodegradable
Bioaccumulative potential	Log Pow		<0				

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

Move disposal of waste in accordance with national legislation.

Move containers for waste disposal in accordance with regulations.

**SECTION 14: TRANSPORT INFORMATION**

**General statements**

UN-Number: n.a.

**Transport by road/by rail (ADR/RID)**

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Classification code: n.a.

LQ (ADR 2013): n.a.

LQ (ADR 2009): n.a.

Environmental hazards: n.a.

Tunnel restriction code: Not applicable

**Transport by sea (IMDG-code)**

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Marine Pollutant: n.a.

Environmental hazards: Not applicable

**Transport by air (IATA)**

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Environmental hazards: Not applicable

**Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Non-dangerous material according to Transport Regulations.



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**SECTION 15: REGULATORY INFORMATION**

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

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

**SECTION 16: OTHER INFORMATION**

These details refer to the product as it is delivered.

Classification in accordance with regulation (EC) No	Evaluation method used
Resp. Sens. 1, H334	Classification according to calculation procedure

R42 May cause sensitization by inhalation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX	Adsorbable organic halogen compounds approx.
CAS	Chemical Abstracts Service
DMEL	Derived Minimum Effect Level
DNEL	Derived No Effect Level
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG-code	International Maritime Code for Dangerous Goods
LC50	Lethal concentration 50 percent kill
LD50	Lethal Dose, 50% kill
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
PBT	Persistent, bioaccumulative and toxic
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC	Substances of Very High Concern
vPvB	Very persistent and very bioaccumulative

Information in this MSDS are based on our current knowledge and the only possible use includes safety requirements.

This information does not guarantee any property. To comply with applicable laws and regulations with the product / the responsibility of the wearer.