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**PREMWASH A 103****SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier**

**Trade name:** Premwash a 103

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

Auxiliary agents

Microbiological enzyme preparation with inert diluent

Sector of use [SU]:

SU 6b - Manufacture of pulp, paper and paper products

Chemical product category [PC]:

PC 26 - Paper and board dye, finishing and impregnation products: including bleaches and other processing aids

Process category [PROC]:

PROC 4 - Use in batch and other process (synthesis) where opportunity for exposure arises

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

Article categories [AC]:

AC 8 - Paper articles

Environmental release category [ERC]:

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

**Uses advised against**

No information available at present.

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

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**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.

Enzymatic proteins (by-product, not otherwise specified)  
 Cellulase

**2.3 Other hazards**

The mixture does not contain any vPvB substance (vPvB= very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT=persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

n.a.

### 3.2 Mixture

Enzymatic proteins (by-product, not otherwise specified)	
Registration number (REACH)	—
Index	—
EINECS, ELINCS, NLP	—
CAS	Cas n.v.
Content%	1-10
Classification according to Directive 67/548/EEC	Sensitizing, R42
Classification according to Regulation (EC) 1272/2008 (CLP)	Resp. Sens. 1, H334

Cellulase	
Registration number (REACH)	01-2119949289-21-XXXX
Index	647-002-00-3
EINECS, ELINCS, NLP	232-734-4
CAS	Cas 9012-54-8
Content%	1-10
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**

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section

**4.1**

The following may occur:

Irritation of the eyes

With long-term contact:

Irritation of the skin

On dust formation:

Irritation of the respiratory tract

Coughing

Sensitive individuals:

Allergic reaction possible.

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

Respiratory distress

Delayed effects from exposure can be expected.

In certain cases, the symptoms of poisoning may only appear after an extended period/after several hours.

**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/ foam/CO2/dry extinguisher  
As a precaution, douse dust with water.

**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.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions:** 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 for 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.

**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**

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. 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.

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- 8.2 Hand protection:** Rubber gloves (EN 374)  
Protective nitrile gloves (EN 374)  
Minimum layer thickness in mm:  
≥ 0,4  
Permeation time (penetration time) in minutes:  
≥ 480  
The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.  
The recommended maximum wearing time is 50% of breakthrough time.  
Protective hand cream recommended.
- 8.3 Eye protection:** Tight fitting protective goggles with side protection (EN 166)
- 8.4 Skin protection:** Protective working garments (e.g. Safety shoes EN ISO 20345, long-sleeved protective working garments)
- 8.5 Respiratory protection:** Normally not necessary.  
If fumes build up, use suitable breathing mask.  
with formation of mist.  
Filter A2P2 (EN 14387), code colour brown, white  
Observe wearing time limitations for respiratory protection equipment.

Additional information on hand protection- No tests have been performed.  
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
Selection of materials derived from glove manufacturer's indications.  
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid, powder  
**Colour:** White&brown  
**Odour:** Slightly  
**Solubility in water:** Not determined

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**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

**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**

Possibly more information on health effects, see section 2.1 (classification).

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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

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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
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

Possibly more information on health effects, see section 2.1 (classification).

PREMWASH A 103							
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 degradability							Biodegradable
Bioaccumulative potential							n.d.a
Mobility in soil							n.d.a
Result of PBT and vPvB assessment							n.d.a
Other adverse effects							n.d.a



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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				

**SECTION 13: DISPOSAL CONSIDERATIONS**
**13.1 For the substance/mixture/residual amounts**

EC disposal code no:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances (2001/118/EC, 2001/119/EC, 2001/573/EC).

04 02 14 waste from finishing other than those mentioned in 04 02 14

16 03 05 organic wastes containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. Dispose at suitable refuse site.

**13.2 For contaminated packing material**

Pay attention to local and national official regulations. Empty container completely. Uncontaminated packing can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

**SECTION 14: TRANSPORT INFORMATION**
**General statements**

UN-Number: n.a.

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**PREMWASH A 103****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.

**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.

Observe youth employment law (German regulation).

Observe law on protection of expectant mothers (German regulation).

Regulation (EC) No 1907/2006, Annex XVII

Directive 2010/75/EU (VOC): n.a.

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

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**PREMWASH A 103****SECTION 16: OTHER INFORMATION**

These details refer to the product as it is delivered.

Classificaiton in accordance with regulation (EC) No 1272/2008 (CLP)	Evaluation method used
Resp. Sens. 1, H334	Classification according to calculation procedure

The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

22 Harmful if swallowed.

38 Irritating to skin.

41 Risk of serious damage to eyes.

42 May cause sensitization by inhalation.

43 May cause sensitization by skin contact.

50 Very toxic to aquatic organisms.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

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

H400 Very toxic to aquatic life.

Resp. Sens. — Respiratory sensitization

Acute Tox. — Acute toxicity - oral

Skin Irrit. — Skin irritation

Eye Dam. — Serious eye damage

Skin Sens. — Skin sensitization

Aquatic Acute — Hazardous to the aquatic environment - acute

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.