

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 1/8



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

1.1. Product identifier

Trade name/designation:

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Additional information:

The substance does not require registration according to REACH.;

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

Use of the substance/mixture:

Enzyme preparations are biocatalysts used in a variety of industrial processes within food manufacturing

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Eaton Technologies GmbH

Langenlonsheim Branch

An den Nahewiesen 24

55450 Langenlonsheim

Germany

Telephone: +49 6704 204-0 (Diese Nummer ist nur zu Bürozeiten besetzt.)

Telefax: +49 6704 204-121

E-mail: SDB@Eaton.com

Website: www.eaton.com/filtration

1.4. Emergency telephone number

Emergency medical information: Giftinformationszentrum Mainz (German and English)., 24h: +49 6131 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (Resp. Sens. 1)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS08

Health hazard

Signal word: Danger

hazard statements for health hazards	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P285	In case of inadequate ventilation wear respiratory protection.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 2/8



Powering Business Worldwide

Panzym Univers

Precautionary statements Response

P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor/....

2.3. Other hazards

Adverse physicochemical effects:

On basis of test data.: none

Adverse human health effects and symptoms:

Repeated inhalation of enzyme dust or aerosols resulting improper handling may induce sensitization and may cause allergic type 1 reactions in sensitized individuals.

Irritant effect on the skin: mild irritant.

Irritant effect on the eye: mild irritant.

Adverse environmental effects:

On basis of test data.: none

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Enzymes are defined as enzyme concentrate (dry matter basis).

Active enzymoproteine (AEP): < 2.5%

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CL P]	Concentration
CAS No.: 9032-75-1 EC No.: 232-885-6	Polygalacturonase Danger H334	2.5 - 5 Wt %
CAS No.: 9033-35-6 EC No.: 232-894-5	Lyase, pectin Danger H334	2.5 - 5 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Accidental release measures high concentrations

Following inhalation:

Effects: May produce an allergic reaction.

Symptoms: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Cough

Remove casualty to fresh air and keep warm and at rest. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

In case of skin contact:

Effects: Frequently or prolonged contact with skin may cause dermal irritation.

Symptoms: mild irritant.

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

IF ON CLOTHING: Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use.

After eye contact:

Effects: Irritating to eyes.

Symptoms: mild irritant.

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 3/8



Powering Business Worldwide

Panzym Univers

After ingestion:

Effects: The following symptoms may occur: After ingestion Gastrointestinal complaints Nausea Vomiting
Symptoms: Irritant.

Rinse mouth immediately and drink plenty of water. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

No data available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂); Water mist. alcohol resistant foam; Dry extinguishing powder

Unsuitable extinguishing media:

none

5.2. Special hazards arising from the substance or mixture

May produce an allergic reaction.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

No data available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

See protective measures under point 7 and 8.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

No special environmental measures are necessary.

Collect spillage.

6.3. Methods and material for containment and cleaning up

For cleaning up:

Conditions to avoid: generation/formation of aerosols. Generation/formation of dust

Take up by mechanical means preferably by a vacuum cleaner equipped with a high efficiency filter.

Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formation of aerosols).

Provide adequate ventilation.

6.4. Reference to other sections

No data available

6.5. Additional information

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 4/8



Powering Business Worldwide

Panzym Univers

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Conditions to avoid: generation/formation of aerosols. Generation/formation of dust

Provide adequate ventilation as well as local exhaust at critical locations.

Liquid enzyme preparations are dustfree preparations. However, inappropriate handling may cause formation of dust or aerosols. For appropriate handling, see section 6 and 7. Inhalation of enzyme dust or aerosols resulting from handling may induce sensitization and may cause allergic reactions in sensitized individuals. Prolonged skin contact may cause minor irritation.

Fire prevent measures:

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed in a cool, well-ventilated place.

storage temperature 0 - 10 °C

7.3. Specific end use(s)

Recommendation:

The product should be handled with the care usual when dealing with chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

8.2.2. Personal protection equipment

Eye/face protection:

Tightly sealed safety glasses.

Skin protection:

Hand protection: The selection of suitable gloves not only depends on the material, but also on other quality characteristics. These may vary from manufacturer to manufacturer. Since the product is a preparation from several substances, the resistance of glove materials cannot be determined in advance and must therefore be checked prior to the application.

Suitable material: The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Breakthrough time (maximum wearing time): The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory protection:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus: Particle filter device (DIN EN 143) P 3

Other protection measures:

Protective clothing: lab coat

General health and safety measures: The usual precautionary measures are to be adhered to when handling chemicals.

8.2.3. Environmental exposure controls

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 5/8



Powering Business Worldwide

Panzym Univers

8.3. Additional information

Human, inhalative, long term/repeated:
DNEL/DMEL : 60 ng/m³

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: brown

Odour: slight fermentation odour

Safety relevant basis data

parameter		at °C	method	Remark
pH	not determined			
Melting point/freezing point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature (°C):	not determined			
Flash point	not determined			
Evaporation rate	not determined			
Ignition temperature in °C	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	1.15 g/ml			
Bulk density	not determined			
Water solubility (g/L)	not determined			
Partition coefficient: n-octanol/water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	not determined			

9.2. Other information

Odour, pH Value, Boiling Point, Melting Point, Flash Point, Ignition temperature, Vapour pressure, Density and Solubility are not relevant to safety. For further information see the Product Specification and the Product Sheet for this preparation.

SECTION 10: Stability and reactivity

10.1. Reactivity

not relevant

10.2. Chemical stability

Substance is, under normal conditions, chemically stable.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

none

10.5. Incompatible materials

none

10.6. Hazardous decomposition products

This article doesn't contain dangerous substances or preparations intended to be released under normal or reasonably foreseeable conditions of use.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 6/8



Powering Business Worldwide

Panzym Univers

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
9032-75-1	Polygalacturonase	LD ₅₀ oral: 2,000 mg/kg OECD TG 401, 420
9033-35-6	Lyase, pectin	LD ₅₀ oral: 2,000 mg/kg OECD TG 401,420

Skin corrosion/irritation:

Irritant effect on the skin: Irritant effect on the eye:

Not an irritant.

OECD 404, OECD 405

Respiratory or skin sensitisation:

May cause sensitization by inhalation.

Carcinogenicity:

No indications of human germ cell mutagenicity exist.

OECD 471 (Ames test), OECD 476

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

Acute Daphnia toxicity

EC50 (48h): 31,7 - 457 mg aep/l (OECD 202)

Algae toxicity

ErC50: (72h): > 5,2 mg aep/l (OECD 201)

Acute fish toxicity

LC50: (96h): 58,3 - 326,7 mg aep/l (OECD 203)

Terrestrial toxicity:

No data available

Effects in sewage plants:

No data available

12.2. Persistence and degradability

Additional information:

Further ecological information: Partition coefficient: n-octanol/water: < 0

The organic part of the product is biodegradable.

According to the present state of knowledge negative ecological effects are not expected.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No indication of bioaccumulation potential.

12.4. Mobility in soil

not relevant

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
9032-75-1	Polygalacturonase	—
9033-35-6	Lyase, pectin	—

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 7/8



Powering Business Worldwide

Panzym Univers

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Do not allow to enter into surface water or drains.

Waste treatment options

Appropriate disposal / Package:

Non-contaminated packages may be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

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

not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

Source:

S Selbsteinstufung

15.2. Chemical Safety Assessment

No data available

15.3. Additional information

No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 04-May-2016

Print date: 09-May-2016

Version: 3

Page 8/8



Powering Business Worldwide

Panzym Univers

SECTION 16: Other information

16.1. Indication of changes

No data available

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Respiratory or skin sensitisation (<i>Resp. Sens. 1</i>)	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

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

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.