

Safety Data Sheet

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identification

Product name DELTABREW® PURE

Synonyms Standardised liquid enzyme preparation

Acid protease
Chemical formula Not applicable
Relevant identified uses and restrictions on use
Recommended use For brewing

Details of the supplier of the safety data sheet

Supplier (manufacturer) WeissBioTech GmbH An der Hansalinie 48-50

> 59387 Ascheberg Germany Tel. +49-2593 919 386

Emergency phone number Tel. +49-2593 919 386 or your national allergen and poison center.

2. HAZARD IDENTIFICATION

Classification:

USA: Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200 :

Resp. Sens. 1 Respiratory sensitization

Canada: WHIMS 2015

Resp. Sens. 1 Respiratory sensitization

Label elements Hazard pictograms



Signal word Danger

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

H315 - Causes skin irritation. H319 - Causes serious eye irritation.

H335 – May cause serious respiratory irritation.

Precautionary statements

Response

Disposal

Prevention P261 - Avoid breathing dust/fume/gas/mist/vapour/spray. P285 - In case of inadequate

ventilation wear respiratory protection. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P264 - Wash hands thoroughly after handling. P304 + P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at root in a position comfortable for breathing. P342 + P311 If experiencing

keep at rest in a position comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P332 + P337 + P313 If skin irritation occurs/if eye irritation persists: Get medical advice/attention. P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P501 - Dispose of contents/container according to the local regulations.

Hazardous ingredients Acid protease enzyme protein

Other hazards The mixture is not known to contain other hazardous components or ingredients.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingradiant name	CAS n°	%	Canada	Hazard Communication Standard; 29 CFR Part 1910.120		
Ingredient name			WHMIS 2015	2012 OSHA	1994 OSHA	
Acid protease	9025-49-4	12-15	+	+	+	
Glycerol	56-81-5	32-50	-	-	+	
Glucose	50-99-7	6-7		-		
Potassium sorbate	24634-61-5	0.15		-		
Sodium benzoate	532-32-1	0.3		-		

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of first aid measures:

General advice Work with properly trained first aid personnel. If it is suspected that dust, mist, vapours or

fumes are present, wear appropriate mask and/or self-contained breathing apparatus. If patient is likely to become unconscious, place and transport in stable sideways position

Inhalation (recovery position) and remove contaminated clothing.

Remove from exposure into fresh air immediately and rest in a position comfortable for

breathing. If irritation or allergic response occurs, consult a doctor.

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FIRST AID MEASURES (continued)

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Eye contact Immediately rinse with water for at least 10 minutes and occasionally lift eyelids.

Check for and remove any contact lenses. Get medical attention if irritation occurs. Skin contact

Wash with soap and water. . Remove contaminated shoes and clothing. Consult a

doctor if symptoms develop.

Ingestion Rinse mouth and throat thoroughly with water and drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact May cause irritation of the eyes (redness).

Inhalation Inhalation of small amounts of product may cause irritation to the respiratory system

and it may entail sensitisation; sensitised people may develop asthma if inhaled again.

Skin contact Contact with the skin may cause irritation.

Ingestion Ingestion of the product may entail gastrointestinal problems.

Over-exposure signs/symptoms

Eye contact Strong and hurtful irritation of the eyes, extreme redness.

Inhalation Adverse symptoms of repeated inhalation of sensitised person may include the

asthma and an allergic reaction if subsequently inhaling the mixture again.

Skin contact Prolonged or repeated contact with the skin may cause strong and painful irritation. Ingestion Prolonged or repeated ingestion of the product may cause gastrointestinal pains.

Indication of any immediate medical attention and special treatment needed

Notes to medical doctor Treat symptomatically. Contact poison treatment or allergen specialist immediately if

large quantities have been ingested or inhaled.

Specific treatments No specific treatment.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Small fire

Suitable Dry powder, foam, dry chemicals or CO₂

Not suitable None known.

Large fire

Suitable Use extinguishing media suitable for the surrounding materials.

Not suitable None known.

Special hazards arising from the substances or mixture

Hazards form the substance or mixture Hazardous combustion products

In case of a fire or if heated, a pressure increase will occur; the container may burst.

In the event of a fire, may produce toxic and/or corrosive decomposition products.

Advice for fire fighters

Special protective actions for fire

fighters

Fire water contaminated with this material must be contained and prevented from

being discharged into any waterway, sewer or drain.

Special protective equipment for fire Fire-fighters should wear appropriate protective equipment and self-contained

fighters

breathing apparatus and require no additions or special turn-out gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

For non-emergency personnel Work with properly trained personnel and wear appropriate protective gear. Avoid

breathing vapour or mist and evacuate surrounding areas. Do not walk through or spread spilt material and provide adequate ventilation. Avoid contact with the eyes,

skin and clothing.

For emergency responders See above and in section 8 to verify whether specialised clothing is needed.

Environmental precautions After spillage avoid creation of aerosols and dust from dried preparation.

Method and materials for containment and cleaning up

Small accidental spillage or leak Mop up with appropriate material. Place in an appropriate waste container. Clean the

area affected with plenty of water.

confined areas. Contain if necessary. Mop up the product spilled with inert material (e.g. dry sand or dry earth) and place in a chemical waste container.

Dispose of in line with all applicable government regulations.

Reference to other sections See section 1 for emergency contact information.

See section 8 for information on appropriate protective materials.

See section 13 for additional waste treatment information.



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HANDLING AND STORAGE 7.

Precautions for safe handling

Advice on general occupational

hygiene

Protective measures Handle according GMP in a food context. Avoid formation of aerosols and dust from

dried preparation. Provide for good ventilation of the room when handling the product. If possible use in a closed circuit. Wear appropriate protective and working gear. Eating, drinking and smoking should be prohibited in an area where this product is

handled. Further: apply GMP house rules appropriate for any food processing context. Conditions for safe storage, including Store in the original container; keep in a dry, clean, well ventilated and cool place. any incompatibilities

Store away from incompatible materials indicated in section 10. Properly reclose after

opening and prevent leakage.

Packaging materials, suitable

Specific end uses

Recommendations Available per separate, product and application specific data sheets and supplier info. Industrial sector specific solutions

PE. Polvethylene, high density (PEHD)

Not available

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

Components with occupational exposure limits

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentration applicable, are classified as hazardous to health or have been assigned a workplace exposure limit.

System design

Appropriate engineering controls Provide for good ventilation of the room when handling the product. Avoid formation of

aerosols and dust from dried preparation. If dust, gas, vapour or mist is generated,

use containment measures and local exhaust ventilation.

Individual protective measures

Wear respiratory protection if ventilation is inadequate. Wear approved type of mask Respiratory protection

for this type of aerosols and dust (mask P3).

Wear appropriate protective clothing based on the type of activity, lab coat. Skin and body

Hand protection Impermeable gloves, rubber or latex. Eye protection Safety glasses with side-shields.

General safety and hygiene

measures

Ensure adequate ventilation, Avoid inhalation, Avoid contact with the skin, eyes and

clothing. Take appropriate measures and operate in accordance with good industry

hygiene and safety practice.

PHYSICAL AND CHEMICAL PROPERTIES 9.

Information concerning the essential physical and chemical properties

Appearance and state Brown transparent to slightly opaque liquid. Odour Odour typical for fermentation products. The product is readily miscible with potable water. Solubility

Melting/freezing point, olfactory threshold, initial boiling point and boiling interval, flashpoint, evaporation rate, flammability(solid, gas), steam pressure, steam density, partition coefficient (n- octanol/water), temperature of breakdown, temperature of autoflammability, viscosity, explosive properties, oxidising properties: data are as for similar proteins and details are not available.

Other information No applicable information available.

STABILITY AND REACTIVITY 10.

Not relevant. Reactivity

Chemical stability The preparation is stable under normal conditions of storage.

Possibility of hazardous reactions Under the normal conditions of storage and use, hazardous reaction will not occur. Conditions to avoid No specific data available.

Incompatible materials No specific data available. Hazardous decomposition products No specific data available.

TOXICOLOGICAL INFORMATION

Primary routes of entry for solids and liquids are ingestion and inhalation Primary routes of exposure

Acute toxicity

Product/ingredient name **Species** Dose Result Exposure DELTABREW® PURE



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TOXICOLOGICAL INFORMATION (continued)

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11.

Potential acute health effects

Eye contact No known significant effects or critical hazards.

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

Skin contact No known significant effects or critical hazards. Ingestion No known significant effects or critical hazards.

Acute toxicity

Irritation/Corrosion

Sensitisation

No information available.

No known significant data.

No specific data available.

Potential chronic health effects

Chronic effects Once sensitised, a strong allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity Conclusion/Summary: not available.

Mutagenicity Conclusion/Summary: not available.

Teratogenicity Conclusion/Summary: not available.

Reproductive toxicity Conclusion/Summary: not available.

Specific target organ toxicity Conclusion/Summary: not available.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact No specific data.

Inhalation Adverse symptoms may include: wheezing and breathing difficulties, asthma.

Skin contact No specific data. Ingestion No specific data.

General Once sensitised, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity
No known significant effects or critical hazards.

Mutagenicity
No known significant effects or critical hazards.

Teratogenicity
No known significant effects or critical hazards.

Developmental effects
No known significant effects or critical hazards.

Fertility effects
No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Species	Exposure	Result
DELTABREW® PURE	-	-	-

Conclusion/Summary: not available

Persistence and degradability

Product/ingredient name	Aquatic half life	Photolysis	Biodegradability
DELTABREW® PURE	1	-	Readily

Conclusion/Summary: not available

Bio accumulative potential

Mobility in soil

Conclusion/Summary: not available.

Soil/water partition coefficient Not available.

Mobility Not available.

Other information / adverse effects

Remarks

Hazardous waste

No known significant effects or critical hazards.

The preparation is believed not to be dangerous to the environment with respect to mobility, persistence and degradability, bio-accumulative potential, aquatic toxicity and

other data relating to eco-toxicity.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods Dispose of surplus or non-recyclable residual product by flushing with water into an

approved sewer or otherwise in line with local legal requirements.

Empty containers or IBC's may be rinsed and find alternative uses.

The classification of the product and/or the packaging material may meet the criteria

for hazardous waste.

Packaging material P501 - Dispose of contents/container according to the local regulations.

Special precautions This material and its container must be disposed of in a safe way. Care should be

taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers may retain some product residues. Avoid dispersal of spilt material

and runoff and contact with soil, waterways, drains and sewers.



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14.

TRANSPORT INFORMATION

International transport regulations:

	UN number	UN proper	Transport	Packing group	Environmental	Classified as dangerous /
	ONTIUMBE	shipping name	hazard class	r acking group	hazards	Additional information
ADR/RID	Not regulated	-	-	-	No	-
ADN	Not regulated	-	-	-	No	-
IMDG	Not regulated	-	-	-	No	Not classified as dangerous
IATA / ICAO	Not regulated	-	-	-	No	Not classified as dangerous
USDOT	-	-	-	-	-	Not classified as dangerous

Special instructions for the user

Transport at the users' premises: ensure transport in closed and upright drums or cartons by qualified and trained personnel aware of what to do in the event of spillage.

Reactivity: 0

15.

REGULATORY INFORMATION

Relevant regulations/legislation applicable for the substance or mixture:

USA: Federal Regulations

Registration status: Chemical TSCA, US released / listed.

EPCRA 311/312 (hazard categories) Acute

State regulations

NFPA Hazard Codes:

Health: 1

Fire: 1

Special:

Canada

WHMIS (2015) GHS: Danger symbol required; see section 2).

EU Regulation 1907/2006 (REACh)

Annex XIV - List of substances subject

to authorisation

None of the components are listed.

EU Regulation 1272/2008 [CLP/GLS] Resp. Sens. 1, H334 RESPIRATORY SENSITIZATION - Category 1.

16.

OTHER INFORMATION

Material for study and training

Enzyme products need handled with care by skilled personnel only. Please consult the 'AMFEP Guide to the Safe handling of Enzymes' (www.amfep.org) for further information. As member of AMFEP, WeissBioTech has adopted a strict safety policy and recommends enzyme processing organisations to take note of the information presented by AMFEP, of which this SDS only is a formal summary.

Notice to the reader

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe and appropriate use of this preparation. The information in this SDS does not represent analytical specifications, for which please refer to our Product Specification Sheet. The format of this SDS references the EC Regulation 1907/2006 as amended; the global implementation of GHS, ISO standard ISO 11014-1:1994 (E) and is recommended by the Association of Manufacturers and Formulators of Enzyme Products (AMFEP).