

AF ENZYME BREAKER

SAFETY DATA SHEET



1. IDENTIFICATION

Product Name	AF Enzyme Breaker
Product Code	40020225
Other Identification Relevant	
Identified Uses	Enzymatic breakdown of starches, fats, and proteins. Applications in food processing, textile treatment, industrial cleaning, and biotechnology
Company Details	
Address:	Plot 69 Groenpad, Boschkop, Pretoria, Gauteng, South-Africa, 0040
Contact Number:	012 111 9520
Email Address:	sales@aftchem.co.za
Emergency Numbers	+2782 958 6676
Medical Treatment	+2784 124
Environmental	+2711 396 3939

2. HAZARD IDENTIFICATION

Hazard Classification & Rating		
Flammability	0	0 = Minimum 1 = Low 2 = Moderate 3 = High 4 = Extreme
Toxicity	1	
Body Contact	1	
Reactivity	1	
Chronic	1	
Label Elements		
Signal Word	Warning	
Hazard Statement	May cause mild skin and eye irritation	
Pictograms	Not Applicable	
Description of other Hazards	<ul style="list-style-type: none">• Can create slippery surfaces when wet, increasing fall risk• May emit mild odors during application, potentially causing discomfort for sensitive individuals• Pressurized containers exposed to high heat may leak or rupture• Residual foam may adhere to surfaces, requiring mechanical cleaning	
Precautionary Statement	<ul style="list-style-type: none">• Use personal protective equipment (PPE) such as gloves and eye protection.• Ensure proper ventilation in processing and handling areas.	

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AF ENZYME BREAKER

SAFETY DATA SHEET



3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CASNo.	Weight %	Classification
Glycerol	56-81-5	10-50%	Not classified
Water	7732-18-5	10-50%	Not classified
Propylene Glycol	57-55-6	1-10%	Not classified
Sorbitol	50-70-4	1-10%	Not classified
Sodium Formate	141-53-7	1-10%	Not classified
phenoxyethanol	122-99-6	10-50%	Eye/Skin Irritant
Calcium Chloride	10043-52-4	< 1%	Not classified
Disubstituted Alaninamide	1189108-44-8	< 1%	Not classified

4. FIRST AID MEASURES

Type of Exposure	First Aid Measures
Eye Contact	Rinse cautiously with water for several minutes. Seek medical attention if irritation persists.
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing and laundry before reuse
Inhalation	Move affected person to fresh air. Monitor for symptoms. Seek medical attention if discomfort or respiratory issues occur.
Ingestion	Do not induce vomiting. Rinse mouth if possible. Seek immediate medical advice.

5. FIRE FIGHTING MEASURES

Category	Details
Extinguishing Media	Use media suitable for the surrounding fire. Recommended: foam, dry chemical, CO ₂
Water Usage	Water may be ineffective against chemical flames
Combustibility	Product itself is non-combustible, but certain components may be
Fire / Explosion Hazard	Not specifically listed; no explosive or reactive hazards indicated
Firefighting Advice	No specific instructions listed; PPE and standard firefighting protocol recommended

AF ENZYME BREAKER

SAFETY DATA SHEET



6. ACCIDENTAL RELEASE MEASURES

- **Personal Protection and Precaution:** Use suitable Personal Protective Equipment (PPE) including gloves, goggles, and protective clothing. Ensure good ventilation in spill area. Refer to Section 8 for full PPE guidance.
- **Environmental Precaution:** Prevent product from entering drains, waterways, or soil. Contain spilled material to minimise environmental impact. Refer to Section 12 for ecological concerns.

Methods and Material for containment and cleaning: Absorb with inert material and collect into labeled waste containers. Clean contaminated surfaces thoroughly to avoid slippery residues.

Minor Spills

- Clean up promptly.
- Avoid direct contact with skin and eyes.
- Surfaces may become slippery — apply warning signage.
- Use detergents and absorbent media.
- Dispose per Section 13.

Major Spills

- Ensure responders wear full PPE.
- Evacuate area if necessary.
- Ventilate indoor spaces or move upwind outdoors.
- Notify emergency services as needed.
- Prevent runoff into water systems.
- Mechanically remove foam and residues.

7. HANDLING AND STORAGE

Precaution for Safe Handling: Handle only in original container. Ensure compatibility with processing equipment. Practice good hygiene after handling.

Safe Handling

- Avoid contact with skin and eyes.
- Wear appropriate PPE (gloves, goggles, protective clothing).
- Limit unnecessary personal contact. Restrict access to storage locations. Provide training on proper handling procedures.

Other Information

- Handle only in original container.
- Ensure compatibility with processing equipment.
- Practice good hygiene after handling.

Condition for Safe Storage, Including any incompatibilities:

Storage Incompatibilities

- Keep away from incompatible substances (not specified but typically includes strong oxidisers and acids).
- Avoid heat sources and fluctuations in temperature
- Store in sealed, original containers. Recommended temperature: 0–25 °C (32–77 °F). Keep dry and away from sunlight.

Suitable Container

- Original packaging, lined metal cans, plastic pails, or other compatible containers.
- Avoid using containers made of incompatible materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Most ingredients are not classified as hazardous and do not have established exposure limits according to OSHA, NIOSH, ACGIH, or Australian standards.





Ingredient Name	CAS No.	Ingredient Name	CAS No.
Glycerol	56-81-5	Phenoxyethanol	122-99-6
Propylene Glycol	57-55-6	Calcium Chloride	10043-52-4
Sorbitol	50-70-4	Disubstituted Alaninamide	1189108-44-8
Sodium Formate	141-53-7		

AF ENZYME BREAKER

SAFETY DATA SHEET



8. EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

Exposure Control	Avoid contamination with food, feed, seed, or water. Do not mix with incompatible substances (e.g. acids, oxidisers). Store away from frost and heat.
Engineering Controls	<ul style="list-style-type: none"> Use process enclosures, local exhaust, or general ventilation to keep airborne exposure below occupational limits.
Personal Protection	   
Eye & Face Protection	<ul style="list-style-type: none"> Wear safety goggles or glasses with side shields. Use face shields if splash risk is present.
Skin Protection	<ul style="list-style-type: none"> Use long-sleeved protective clothing or overalls, especially during routine handling.
Hand & Feet Protection	<ul style="list-style-type: none"> Select gloves based on chemical compatibility; use sturdy, closed footwear for spill-prone zones.
Respiratory Protection	<ul style="list-style-type: none"> Use half-Wear half-face or full-face respirators with P1, P2, or P3 filters if airborne concentrations rise. Ensure proper fit and maintenance. or full-face respirators (P1, P2, or P3) if airborne concentrations rise.
Other Protection	<ul style="list-style-type: none"> Ensure eyewash stations and safety showers are readily accessible near workstations.
Thermal Hazard	<ul style="list-style-type: none"> Not applicable under normal use. The product is not heat-reactive or thermally volatile.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties			
Appearance	Amber liquid		
Physical state	Fluid Liquid	Relative density (Water =1)	Not Available
Odour	Slight fermentation odour	Partition coefficient n - octanol / water	Not Available
Odour Threshold	Not Available	Auto- ignition temperature (° C)	Not Available
pH (as supplied)	5.0 – 6.0	Decomposition temperature	Not Available
Melting / Freezing Point (° C)	Not Available	Viscosity (c St)	Approx. 100 cps
Initial boiling point and boiling range (° C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	Not Available	Taste	Not Applicable
Evaporation rate	Not Available	Explosive properties	Not Applicable

AF ENZYME BREAKER

SAFETY DATA SHEET



9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Applicable	Surface Tension (dyn /cm or mN/ m)	Not Applicable
Lower Explosive Limit (%)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Applicable	Gas group	Not Available
Solubility in water (g/L)	Soluble	pH as a solution (1%)	Not Available
Vapour density (Air = 1)	Applicable	VOC g/L	Not Available

10. STABILITY AND REACTIVITY

Reactivity	The product is stable under normal conditions. No dangerous reactions are expected.
Chemical Stability	Stable during storage and handling as per recommended guidelines.
Possibility of Hazardous Reaction	None known under prescribed usage and storage.
Conditions to avoid	Avoid exposure to frost, extreme heat, and direct sunlight.
Incompatible Materials	Avoid contamination with acids, oxidising agents, food, feed, seed, or water.
Hazardous Decomposition Products	Carbon monoxide (CO) and carbon dioxide (CO ₂) may form during thermal decomposition.
Other Information	No further relevant information available.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects	
Inhaled	Not classified as hazardous. High concentrations of vapours or aerosols may cause transient respiratory irritation.
Ingestion	Not expected to be harmful. Do not induce vomiting. Observe for symptoms and seek medical attention if needed.
Skin Contact	Not classified as hazardous. May cause mild skin irritation, especially in sensitive individuals.
Eye Contact	Not classified as irritant. Direct contact may lead to transient redness, watering, or discomfort.
Chronic Effects	Long-term exposure is not expected to result in chronic toxicity. Prolonged exposure to airborne dust may affect lung function.

AF ENZYME BREAKER

SAFETY DATA SHEET



11. TOXICOLOGICAL INFORMATION (Continued)

ENZYME BREAKER	Toxicity	Irritation
Acute Toxicity	Not classified as hazardous	Carcinogenicity Not classified
Skin Irritation/Corrosion	May cause mild skin irritation. Not expected to cause significant irritation	Reproductivity Data not available to make classification High dust/vapour
Serious Eye Damage/Irritation	Direct contact may cause transient discomfort	STOT - Single Exposure concentrations may irritate the respiratory tract
Respiratory or Skin sensitization	Data not available to make classification	STOT - Repeated Exposure Long-term exposure to high dust concentrations may affect lung function
Mutagenicity	Data not available to make classification	Aspiration Hazard Data not available to make classification

12. ECOLOGICAL INFORMATION

Ecotoxicity	
Toxicity Effect	Not expected to cause harm to aquatic or terrestrial life
Persistence and degradability	Product is considered biodegradable
Bio accumulative potential	Not expected to bioaccumulate

13. DISPOSABLE CONSIDERATIONS

Waste Treatment Methods	<ul style="list-style-type: none"> Dispose in accordance with national and local regulations. Avoid release into the environment and uncontrolled waste streams.
Product	<ul style="list-style-type: none"> Do not discharge into drains or natural waterways. May be suitable for construction fill, depending on local approval.
Packaging Disposal	<ul style="list-style-type: none"> Do not mix empty containers with municipal waste. Send to approved recycling or disposal facilities. Ensure proper labeling and decontamination if reused.

14. TRANSPORT INFORMATION

In accordance with ADR/RID/IMDG/IATA/ADN	
UN Number	Not applicable
UN- No. (ADR)	Not applicable
UN- No. (IMDG)	Not applicable
UN- No. (IATA)	Not applicable

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AF ENZYME BREAKER

SAFETY DATA SHEET



14. TRANSPORT INFORMATION (Continued)

UN proper shipping name	
Proper Shipping Name (ADR)	Not classified
Proper Shipping Name (IMDG)	Not classified
Proper Shipping Name (IATA)	Not classified
Transport hazard class(es)	
ADR	Not regulated
Transport hazard class(es) (ADR)	Not applicable
IMDG	Not regulated
Transport hazard class(es) (IMDG)	Not applicable
IATA	Not regulated
Transport hazard class(es) (IATA)	Not applicable
Packing group	
Packing group (ADR)	Not applicable
Packing group (IMDG)	Not applicable
Packing group (IATA)	Not applicable
Environmental hazards	
Dangerous for the Environment	No
Marine pollutant	No
Other information	Not classified as dangerous goods
Special Precautions for User	
Overland transport	Suitable for general freight conditions
Transport by sea	Safe for marine shipment; avoid extreme heat
Air transport	Permitted by air; no restrictions noted

15. REGULATORY INFORMATION

This SDS was prepared in accordance with Regulation (EC) No 1907/2006

Safety, health and environmental regulations/legislation specific for the substance or mixture	No specific safety, health or environmental regulations/legislation listed
Chemical Safety Assessment	Available for this product

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.