



PUNATURE FOOD INGREDIENTS CO., LTD

Room 202, No. 15, Lane 978 Jindu Road, 201108 Shanghai, China

MATERIAL SAFETY DATA SHEET

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LACTASE

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Products Name	LACTASE
CAS No	9031-11-2
Manufacturer	PUNATURE FOOD INGREDIENTS CO., LTD
Telephone Number	+86-(0)21-54337075
Fax Number	+86 (0)21 34667079

SECTION 2: HAZARD IDENTIFICATION

Emergency overview	Do not splash or create dust or aerosols of the product.
Potential health effects:	
Eyes Contact	May cause irritation and sensitization in susceptible individuals following direct contact
Skin Contact	May cause irritation in susceptible individuals following prolonged direct contact
Ingestion	To the best of our knowledge, data are lacking to provide evidence that amounts ingested incidental to processing could result in significant adverse health effects.
Inhalation	May cause an immunogenic response (sensitization) to occur in susceptible individuals
Physical & Chemical Hazards: None	
Environment Hazards: None	
Specific Hazards: None	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredients	Enzyme protein
Chemical Identity	Enzyme protein
CAS No.	9031-11-2
OAHA Pel	Non

SECTION 4: FIRST AID MEASURE

Emergency and first aid procedures:



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After skin Contact	Take off immediately all contaminated clothing, wash immediately with plenty of water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
After eye contact	Rinse opened eye immediately for several times under running water, if symptoms persist, consult a doctor.
After swallowing	Rinse out mouth with water Never give anything by mouth to an unconscious person. If symptoms persist consult doctor.
Information for doctor	
Most important symptoms and effects, both acute and delayed No further relevant information available	
Indication of any immediate medical attention and special treatment needed No further relevant information available	

SECTION 5: FIREFIGHTING PROCEDURES	
Suitable extinguisher media:	Non-flammable.
None suitable media	None
Special protective equipment	None
Additional information	None

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Not harmful. No special measures required.	

SECTION 7: HANDLING AND STROAGE	
Name	Free flowing material
Suitable storage media	Fibre/HDPE drums with poly liner
Storage	Store in dry, cool and well-ventilated places away from the sun, heat, etc.
Recommendations	Avoid high temperature humidity and long storage time, keep container closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
Respiratory protection	Special measures are not required
Hand protection	Special measures are not required
Eye protection	Special measures are not required
Skin protection	Special measures are not required
Protective measures	Special measures are not required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Boiling point	N/A	Specific gravity (H2O=1)	N/A



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Melting point	N/A	Vapor density (AIR=1)	N/A
Water solubility	Soluble	Vapor pressure (mm Hg)	N/A
Odour and taste	Characteristic	Evaporation rate (Butyl Acetate)	N/A
Physical state	free flowing powder	Color	white to light brown

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection	Special measures are not required
Hand protection	Special measures are not required
Eye protection	Special measures are not required
Skin protection	Special measures are not required
Protective measures	Special measures are not required

SECTION 10: STABILITY AND REACTIVITY

Stability	Stable product at normal conditions of pressure and temperature. No dangerous reactions are expected.
Conditions to avoid	High temperature, humidity
Materials to avoid	Iron, copper
Hazardous decomposition products	none

SECTION 11: TOXICOLOGICAL INFORMATION

NON-TOXIC

SECTION 12: ECOLOGICAL INFORMATION

This product is 100% biodegradable. It is not known to be adverse to the environment.

SECTION 13: DISPOSABLE CONSIDATIONS

No special disposal considerations are required, beyond compliance with local authorities and regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1 UN Number

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.2 UN Proper Shipping Name

ADR/RID: unknown

IMDG: unknown

IATA: unknown

14.3 Transport hazard class(es)



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14.4 Packing group, if applicable

ADR/RID: Not dangerous goods. IMDG: Not dangerous goods. IATA: Not dangerous goods.

14.5 Environmental hazards

ADR/RID: no IMDG: no IATA: no

14.6 Special precautions for user

no data available

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

no data available

SECTION 15: regulatory information

Chemical safety assessment: a chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

NONE

DISCLAIMER OF LIABILITY:

The above information is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information this document is based on the resent state of our knowledge and is applicable to the product with regard to appropriate safety precautions.

It does not represent any guarantee of the properties of the product. Guide shall not be held liable for any damage resulting from handling or from contact with the above product.