

SAFETY DATA SHEET



Section 1: IDENTIFICATION

Product Name Danisco Xylanase 8000 G
Material Number 93Y2
Chemical nature Enzyme Preparation.
Formula Not applicable
Synonyms Not applicable
Recommended Use Animal feed.
Company/undertaking identification Danisco Animal Nutrition
PO Box 777
Marlborough
Wiltshire SN81XN
United Kingdom
Tel: +441672 517777.
E-mail Address SDS-Genencor@Danisco.com
Emergency Telephone +1 (319) 368-7657 a Distribution incident - Spill, Leak, or Accident
CALL CHEMTREC - 800-424-9300 (within US)
DuPont registration number 671983

Section 2: HAZARDS IDENTIFICATION

Potential Health Effects Inhalation of enzyme mist/dust may cause allergic respiratory reactions, including asthma, in susceptible individuals on repeated exposure.

Eyes May cause slight irritation
Skin May cause slight irritation
Inhalation May cause slight irritation
Ingestion Not expected to be toxic by ingestion.

Aggravated Medical Conditions Atopy. Asthma.

Physical and chemical hazards Dust can form an explosive mixture with air.
Environmental Hazard See Section 12 for additional Ecological Information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Description No information available

Chemical Name	CAS-No	%	OSHA	ACGIH
Wheat flour	130498-22-5	93-99	Not Listed	Not Listed
Xylanase	9025-57-4	<1	Not Listed	Not Listed

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Section 4: FIRST AID MEASURES

Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention
Skin Contact	IF ON SKIN: Wash with plenty of water and soap If skin irritation occurs: Get medical advice/attention
Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
Ingestion	Rinse mouth thoroughly with water. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Notes to Physician	May cause allergic respiratory reaction.

Section 5: FIRE FIGHTING MEASURES

Flammable Properties	Not flammable.
Suitable Extinguishing Media	Extinguish with alcohol-resistant foam, fire extinguishing powder or water spray.
Protective Equipment and Precautions for Firefighters	Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protection recommended in Section 8. Avoid generation of dust / aerosol.
Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Contain and remove spilled product by mechanical means or with a vacuum cleaner equipped with a high efficiency filter. Avoid dust formation

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Avoid generation of dust / aerosol. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist.
Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from light. Keep/store only in original container.
Technical Measures/Precautions	Ensure adequate ventilation

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Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Based on data available for ingredients

Occupational Exposure Controls

Engineering Measures Transfer via enclosed lines. Formulate in enclosed or ventilated mixing vessels. Carefully handle the substance to minimize releases of dust/aerosols.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice

Personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).
Skin and Body Protection Impervious gloves.
Respiratory Protection Use NIOSH approved respiratory protection.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fine granular; Light brown	Odor	Odorless.
Physical State	Solid	pH	Not determined
Flash Point	Not applicable	Autoignition Temperature	Not applicable
Decomposition Temperature	No data available	Boiling point / boiling range	Not determined
Melting Point/Range	No data available	Freezing Point	No data available
Explosion Limits	Not determined	Flammability Limits in Air	Not applicable
Water solubility	Soluble	Specific Gravity	Not applicable
Vapor Pressure	Not determined	Evaporation Rate	Not applicable
		Explosive Properties	Dust can form an explosive mixture in air.

Section 10: STABILITY AND REACTIVITY

Chemical stability Stable under normal conditions.

Incompatible Products None known.

Conditions to avoid Avoid dust formation. Dust may form explosive mixture in air.

Hazardous Decomposition Products None known.

Hazardous Polymerization Hazardous polymerization does not occur.

Section 11: TOXICOLOGY INFORMATION

Product Information

Acute toxicity
Oral Not expected to be toxic by ingestion.
Dermal No information available
Inhalation No information available

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Irritation	
Eye irritation	May cause slight irritation.
Skin irritation	May cause slight irritation.
Respiratory irritation	May cause slight irritation.
Sensitization	Inhalation of enzyme mist/dust may cause allergic respiratory reactions, including asthma, in susceptible individuals on repeated exposure.
Systemic toxicity	There is no data available for this product
Mutagenic effects	There is no data available for this product
Reproductive effects	There is no data available for this product
Carcinogenicity	There is no data available for this product
<u>Component Information</u>	Classification based on data available for ingredients
<i>Xylanase</i>	
Inhalation	LC50/inhalation/4h/rat > 5.1 mg/l.
Eye irritation	Not an irritant.
Skin irritation	Not an irritant.
Sensitization	Inhalation of enzyme mist/dust may cause allergic respiratory reactions, including asthma, in susceptible individuals on repeated exposure. May cause sensitization by inhalation.
Systemic toxicity	In a 90-day study in rats, there were no indications of toxicity or other changes attributed to treatment. A NOAEL can be established at 1140 mg/kg/d.
Mutagenic effects	Not mutagenic in bacterial assays in the presence and absence of metabolic activation up to 5,000 µg/plate. Negative in chromosomal aberration using human lymphocytes.
Carcinogenicity	Not classified as a carcinogen by IARC, OSHA, or NTP.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity effects	Ecotoxicity unknown / Not determined.
Mobility	Soluble
Persistence and Degradability	Enzymes are considered readily biodegradable.
Bioaccumulation/Accumulation	Bioaccumulation is unlikely.
<u>Component Information</u>	Based on data available for ingredients

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of wastes in an approved waste disposal facility. Dispose of contents/containers in accordance with local regulations.
Packaging	Dispose of empty containers and wastes safely. Dispose of waste product or used containers according to local regulations.

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Section 14: TRANSPORTATION INFORMATION

Harmonized Tariff Code 3507.90.7000 (for enzymes)

DEPT. OF TRANSPORTATION UN OR NA NUMBER Not classified as dangerous in the meaning of transport regulations.

Section 15: REGULATORY INFORMATION

U.S. Federal Regulations

Chemical Name	SARA 313 - Threshold Values %	CERCLA/SARA - Section 302 Extremely Haz
Wheat flour	Not listed	Not listed
Xylanase	Not listed	Not listed

U.S. State Regulations

This product does not contain any Proposition 65 chemicals.

WHMIS: Canadian Workplace Hazardous Material Information System

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR

Not hazardous SOR/88-64

Section 16: OTHER INFORMATION

Prepared By SDS-Genencor@Danisco.com

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SDS sections updated None.

Disclaimer

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END OF SDS