

Safety Data Sheet

Amylase, Diastase

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Amylase, Diastase

Synonyms/Generic Names: Maltin, Diastase of Malt

SDS Number: 62.00

Product Use: For Educational Use Only

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information Contact: Ward's Science

5100 West Henrietta Rd. PO Box 92912-9012 Rochester, NY 14692

(800) 962-2660 (Monday-Friday 7:30-7:00 Eastern Time)

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

OSHA Hazards: Skin and respiratory sensitizer

Target Organs: None
Signal Words: Danger

Pictograms:



GHS Classification:

Respiratory sensitization	Category 1
Skin sensitization	Category 1

GHS Label Elements, including precautionary statements:

Hazard Statements:

H317	May cause an allergic skin reaction.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements:

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.	
P280	Wear protective gloves.	
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.	

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Potential Health Effects

Eyes	May cause eye irritation.	
Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.	
Skin	May be harmful if absorbed through skin. May cause skin irritation.	
Ingestion	May be harmful if swallowed.	

NFPA Ratings

Health	1
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	1
Fire	0
Reactivity	0
Personal	С

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS#	EINECS# / ELINCS#	Formula	Molecular Weight
Amylase Malt Diastase	100	9000-92-4	232-567-7	N/A	N/A

4. FIRST-AID MEASURES

Eyes	Flush eyes with water as a precaution.	
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not	
	breathing, give artificial respiration. Get medical attention if necessary.	
Skin	Wash off with plenty of soap and water	
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If	
	conscious, wash out mouth with water. Get medical attention if necessary.	

5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use appropriate media for adjacent fire. Cool containers with water.	
Special protective equipment	Wear self-contained, approved breathing apparatus and full protective	
and precautions for firefighters	clothing, including eye protection and boots.	
Specific hazards arising from	May emit toxic fumes under fire conditions. Nature of decomposition	
the chemical	products not known. (See also Stability and Reactivity section).	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Sweep up and shovel. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and cleanup materials in accordance with regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use. Avoid dust formation.

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Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities). Hygroscopic.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Contains no substances with occupational exposure limit values. Personal Protection

Eyes	Wear chemical safety glasses or goggles.	
Inhalation	Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.	
Skin	Wear nitrile or rubber gloves, apron or lab coat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
Other	Not Available	

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Yellowish to white powder.
Odor	Characteristic malt odor.
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable
Upper/lower flammability or explosive limit	Not Flammable
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	Not Available
Solubility (ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable	
Possibility of Hazardous Reactions	Will not occur.	
Conditions to Avoid	Heat and moisture.	
Incompatible Materials	Strong oxidizers.	
Hazardous Decomposition Products	Nature of decomposition products unknown.	

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11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral – rat - >15,000 mg/kg

Carcinogenicity

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IARC	No component of this product present at levels greater than or equal to 0.1% is identified
	as probable, possible or confirmed human carcinogen by IARC.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified
	as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified
	as a carcinogen or potential carcinogen by OSHA.

Signs & Symptoms of Exposure

Skin	Redness, itching.	
Eyes	Redness, tearing, itching, burning, conjunctivitis.	
Respiratory	Irritation of mucous membranes, coughing, wheezing, shortness of breath	
Ingestion	Irritation and burning sensations of mouth and throat, nausea, vomiting, and abdominal	
	pain.	

Chronic Toxicity	Not Available	
Teratogenicity	Not Available	
Mutagenicity	Not Available	
Embryotoxicity	Not Available	
Specific Target Organ Toxicity	Prolonged or repeated exposure may cause allergic reactions in certain	
	sensitive individuals.	
Reproductive Toxicity	Not Available	
Respiratory/Skin Sensitization	Prolonged or repeated exposure may cause allergic reactions in some	
	individuals.	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Not Available
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Not Available
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or	
	local regulations and consult with appropriate regulatory agencies if necessary before	
	disposing of waste product or residues.	

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Product	Users should review their operations in terms of the applicable federal/national or	
Containers	local regulations and consult with appropriate regulatory agencies if necessary	
	before disposing of waste product containers.	

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	Not Dangerous goods
TDG	Not Dangerous goods
IMDG	Not Dangerous goods
Marine Pollutant	No
IATA/ICAO	Not Dangerous goods

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.	
DSCL (EEC)	All ingredients are listed on the DSCL inventory.	
California Proposition 65	Not Listed	
SARA 302	Not Listed	
SARA 304	Not Listed	
SARA 311	Amylase	
SARA 312	Amylase	
SARA 313	Not Listed	
WHMIS Canada	Class D-2A: Poisonous and infectious material- Other effects- Very toxic	

16. OTHER INFORMATION

Revision	Date
Revision 1	06/07/2012
Revision 2	06/20/2013

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