

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

Product Identifier

Product Name Biomass Concentration

Other means of identification

Material Number EX0282

Recommended use of the chemical and restrictions on use

Recommended Use For experimental use.

Details of the supplier of the safety data sheet

Supplier Address

Danisco US Inc.
Genencor, a Danisco Division
3490 Winton Place
Rochester, New York 14623 USA
+1 (585) 256-5200
+1 (800) 847-5311

E-mail Address

SDS.Genencor@DuPont.com

Emergency Telephone Number

+1 (319) 368-7657. For a Distribution incident - Spill, Leak, or Accident
CALL CHEMTREC - 800-424-9300 (within US)
DuPont registration number 671983

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation

Category 1

Label Elements

Emergency Overview

Signal Word: DANGER

Hazard Statements

H318 - Causes serious eye damage



Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Hazards not otherwise classified (HNOC)**Other information**

None Known

3. COMPOSITION/INFORMATION ON INGREDIENTS**Description****Preparation**

Chemical Name	CAS-No	%
Ammonia	1336-21-6	1-14

4. FIRST AID MEASURES**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.

Most important symptoms and effects, both acute and delayed

None known.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Extinguish with alcohol-resistant foam, fire extinguishing powder or water spray.

Unsuitable Extinguishing Media None.**Special hazard**

None Known

Explosion Data**Sensitivity to Mechanical Impact** No.**Sensitivity to Static Discharge** No.**Protective Equipment and Precautions for Firefighters**

Positive pressure self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing will provide adequate protection.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid generation of dust and aerosols. Avoid breathing dust or spray mist. Use personal protection recommended in Section 8.

Environmental Precautions

Contain spill.

Methods and material for containment and cleaning up

Methods for Containment Cover with absorbent or contain. Collect and dispose.

Methods for Cleaning Up Use appropriate personal protective equipment (PPE). Contain and/or absorb spill with inert material, then place in suitable container. Prevent runoff from entering drains, sewers or waterways.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid generation of dust and aerosols. Avoid contact with eyes, skin and clothing. Avoid breathing dust or spray mist.

Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Protect from light. Keep/store only in original container.

Incompatible Products None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines Based on data available for ingredients.

Chemical Name	ACGIH TLV	OSHA 8 Hr. TWA:	NIOSH IDLH
Ammonia (anhydrous) 7664-41-7	TWA: 25 ppm STEL: 35 ppm	50 ppm TWA 35 mg/m ³ TWA	300 ppm

Appropriate engineering 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. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with eyes, skin and clothing. Wear suitable gloves and eye/face protection.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear safety glasses with side shields (or goggles).

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection If exposure limits are exceeded, NIOSH/MSHA approved respiratory protection should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Solid; Semi-Liquid
Color	Brown
Odor	Mild-musty.
Odor Threshold	No data available
pH	4-9
Melting point/freezing point	No data available
Boiling point / boiling range	Not determined
Flash Point	No data available
Method	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	
Upper Flammability Limit	No data available
Upper explosive limits	No data available
Lower Flammability limit	No data available
Lower explosive limits	No data available
Vapor Pressure	Not determined
Vapor Density	Not determined
Relative density	No data available
Specific Gravity	No data available
Water Solubility	Partly soluble.
Partition Coefficient (n-octanol/water)	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No information available

10. STABILITY AND REACTIVITY

Reactivity

Not expected.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

None Known.

Incompatible Materials

None known.

Hazardous decomposition products

None known.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Acute toxicity

Inhalation

There is no data available for this product.

Eye Contact

Causes serious eye damage.

Skin Contact

Not expected to cause irritation.

Ingestion

Toxicity Not expected

Information on toxicological effects.

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization There is no data available for this product.
Mutagenic effects There is no data available for this product.
Carcinogenicity There is no data available for this product.
Reproductive effects There is no data available for this product.
STOT - single exposure There is no data available for this product.
STOT - repeated exposure There is no data available for this product.
Aspiration hazard Not expected.

Numerical measures of toxicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonia 1336-21-6	None Known	None Known	None Known	None Known

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Classification based on data available for ingredients

Persistence and Degradability

Based on data available for ingredients

Bioaccumulation/Accumulation

No bioaccumulation potential

Mobility

Soluble in water

Other Adverse Effects

None Known.

13. DISPOSAL CONSIDERATIONS**Waste treatment methods****Waste Disposal Methods**

Dispose of wastes in an approved waste disposal facility. Dispose of contents/containers in accordance with local regulations.

Contaminated Packaging

Dispose of empty containers and wastes safely. Dispose of waste product or used containers according to local regulations.

14. TRANSPORT INFORMATION**Harmonized Tariff Code**

Not Applicable

**DEPT. OF TRANSPORTATION UN
OR NA NUMBER**

Not regulated

15. REGULATORY INFORMATION**U.S. Federal Regulations**

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

16. OTHER INFORMATION

Prepared By SDS.Genencor@DuPont.com

Issuing Date 06/01/2015

Revision Date 06/01/2015

Revision Number 1

SDS sections updated First edition in this format

Disclaimer

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END OF SDS