

SAFETY DATA SHEET

Updated 27 Jan 2026

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Product name : **Alpha Amylase Activity Nanosensor – Light Scattering Nanoassay™**
Product number : **AMYSTRNNP**
Brand : **Nanoassay™ by Zymosense**
CAS-No. : **9005-25-8 (starch), 7732-18-5 (water)**

1.2. Relevant identified uses of the substance of mixture and uses advised against

Identified uses : Laboratory chemicals, assay reagent
Uses advised against : The product is being supplied for R&D and assaying purposes only. It is the recipient's responsibility to comply with these purposes. Use for other commercial purposes may not be performed unless consent is granted in writing by Zymosense, Inc.

1.3. Details of the supplier of the safety data sheet

Company : Zymosense, Inc
2501 North Loop Drive,
Suite 1010
Ames, IA 50010
United States
Telephone : +1 515-515-7299
support@zymosense.com

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not classified as hazardous

2.2. GHS Label elements, including precautionary statements

Pictogram : None required
 Signal Word : None
 Hazard Statements : None
 Precautionary Statements : General laboratory hygiene recommended

2.3. Hazards not otherwise classified (HNOC) or not covered by GHS - None

Section 3: Composition/information on Ingredients

3.1. Substances

Synonyms : Zymosense Amylase Nanosensors
 CAS-No. : 9005-25-8, 7732-18-5

Component	CAS-No	Weight %
Starch (polysaccharide)	9005-25-8	<=50
Water	7732-18-5	>=50

Description of first-aid measures

If inhaled

Not expected to be hazardous when wet. Move to fresh air if discomfort occurs.

In case of skin contact

Wash with soap and water

In case of eye contact

Rinse cautiously with water for several minutes

If swallowed

Non-toxic. Rinse mouth with water.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitation of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Carbon oxides

Ambient fire may liberate hazardous vapors.

5.3. Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4. Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special precautions required.

6.2. Environmental precautions

Prevent large quantities from entering drains.

6.3. Methods and materials for containment and cleaning up

Absorb with inert material and rinse area with water.

Section 7: Handling and storage

7.1. Precautions for safe handling

Use standard laboratory practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store at 4° C in a closed container

Section 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

No occupational exposure limits established.

Appropriate engineering controls

None Required

Personal protective equipment

Eye protection and gloves as appropriate for laboratory work.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- | | | |
|----|--|---|
| a) | Appearance | Form: turbid liquid suspension
Color: clear to white |
| b) | Odor | Odorless |
| c) | Odor Threshold | No data available |
| d) | pH | 6.0-7.0 |
| e) | Melting point/
freezing point | 0 °C |
| f) | Initial boiling point
and boiling range | No data available |
| g) | Flash point | No data available |
| h) | Evaporation rate | No data available |
| i) | Flammability
(solid, gas) | No data available |
| j) | Upper/lower
flammability or
explosive limits | No data available |
| k) | Vapor pressure | No data available |
| l) | Vapor density | No data available |
| m) | Density | 1.0 g/cm ³ |
| | Relative density | No data available |
| n) | Water solubility | dispersible in water |
| o) | Partition coefficient
n-octanol/water | No data available |
| p) | Autoignition Temp | No data available |

Section 9: Physical and chemical properties (cont)

- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties Not classified as explosive
- t) Oxidizing properties none

9.2. Other safety information

No data available

Section 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

10.4. Conditions to avoid

No information available

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

In the event of fire: see section 5

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Not expected to be toxic

Skin corrosion/irritation

Not expected to cause irritation

Serious eye damage/eye irritation

Not expected to cause irritation.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

Not listed by IARC, NTP, or OSHA.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Section 12: Ecological information

Expected to be biodegradable.

No known adverse environmental effects.

Section 13: Disposal considerations

13.1. Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations.

Section 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Further information

Not classified as dangerous in the meaning of transport regulations.

Section 15: Regulatory information

SARA 302 Components

Not Applicable

SARA 313 Components

Not applicable

SARA 311/312 Hazards

Not applicable

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	

Section 16: Other information

Further information

The information provided is believed to be correct but is not exhaustive.

Revision date: 29-Jan-2026