

Safety Data Sheet

SECTION 1: Identification of the substance/mixt	ture and of the company/undertaking
Section 1. Identification of the substance/ mixe	the and of the company/ under taking

Product Name:	Glucoamyl L-209+
Chemical Name:	Enzyme preparation
CAS No:	9032-08-0
Recommended Use:	Saccharification of dextrin used in production of dextrose, starch based syrups ethanol fermentation
Company Identification:	CTE Global, Inc. 630 Dundee Road, Suite 440 Northbrook, IL 60062

Emergency telephone number: 847-564-5770

SECTION 2: Hazards identification

Classification of the substance or	
Mixture GHS-US classification:	Respiratory Sensitizer, Category 1 H334

Label elements

GHS-US labeling

Hazard pictograms (GHS-US):



Signal word (GHS-US):

Danger



Hazard statements (GHS-US):	H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statements (GHS-US):	P261 – Avoid breathing fume/gas/mist/vapors/spray.
	P342 + P314 – If experiencing respiratory symptoms: Get medical advice/attention if you feel unwell.

SECTION 3: Composition/information on ingredients

Name:	Glucoamylase
-------	--------------

- Synonyms: Glucan-1, 4-alpha-glucosidase
- Hazardous ingredients: Enzyme protein (<10%)

CAS No: 9032-08-0

EINECS No: 232-877-2

GHS-US classification: Resp. Sens. 1, H334

SECTION 4: First aid measures

Skin Contact: Wash skin with plenty of water.

Eye Contact: Rinse eyes with cold water for a minimum of 20 minutes. Obtain medical advice if irritation occurs.

- Ingestion: Rinse mouth and throat thoroughly with water. Drink water. Should irritation occur, seek medical advice.
- Inhalation:Remove from exposure. If symptoms of irritation or sensitization occur
(shortness of breath, wheezing or labored coughing), seek medical advice.



SECTION 5: Firefighting measures

Protection against Fire and Explosions:	No special requirements
Suitable Fire Extinguish Media:	Water, foam
Non Suitable Media:	None
Special Exposure Hazards:	None

SECTION 6: Accidental release measures

Spilled preparation should be removed immediately. Flush remainder on skin or eyes carefully with plenty of water. Wash contaminated clothing.

SECTION 7: Handling and storage

Provide good ventilation of the room when handling the preparation. Store container in a cool and dry, place away from direct sunlight and heat.

SECTION 8: Exposure controls/personal protection

Recommended Personal Protective Equipment

Respiratory Protection:	Use in well ventilated areas
Hand protection:	Impermeable gloves, such as latex gloves
Eye Protection:	Safety glasses or eye shield
Other Protection:	Long sleeved clothing or other normal work wear

SECTION 9: Physical and chemical properties

Appearance: Br	own liquid
----------------	------------

Odor: Slight odor

pH: 3.5 – 5.0



Density: 1.11– 1.16 g/mL

Water solubility:Active component is readily soluble in application-relevant solutions at all
levels of concentration, temperature and pH which may occur in normal
usage

SECTION 10: Stability and reactivity

This material is stable under normal conditions of use.

Conditions to Avoid:	None
Materials to Avoid:	None
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Not occur

SECTION 11: Toxicological information

Inhalation of aerosols or dust resulting from inappropriate handling may induce sensitization and may cause allergic reactions in sensitized individuals. Skin contact may cause an irritation. The preparation is non-toxic and ingestion of small quantities is not considered a hazard, but see section 4.

SECTION 12: Ecological information

The product is believed to be safe for environment in respect of its mobility, stability, decaying ability, bioaccumulation potential, water toxicity and other parameters of ecological toxicity.

SECTION 13: Disposal considerations

No special disposal method required, except that in accordance with current local authority regulations.

SECTION 14: Transport information			
UN No:	Not applicable	Sea:	Not applicable
Road/Rail:	Not applicable	Air: Not	applicable



SECTION 15: Regulatory information

The preparation does not contain ingredients classified as dangerous substances.

SECTION 16: Other information

Indication of changes: 5/01/2017

Other information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200. This information is based on our current knowledge and is intended to describe the product for purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.