

Revision number: 1 Revision date: 07/06/2018

## 1. IDENTIFICATION

Product name: Product code:

Product use: Restrictions on use:

Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

# TCI AMERICA SAFETY DATA SHEET

 $\alpha\text{-}Amylase$  diluted with Starch, from Bacillus amyloliquefaciens A0447

For laboratory research purposes. Not for drug or household use.

### Emergency telephone number:

Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) **Responsible department:** TCI America Environmental Health Safety and Security +1- 503-286-7624

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Sensitization - Respiratory [Category 1]		
Signal word:	Danger!		
Hazard Statement(s):	May cause allergy or asthma symptoms or breathing difficulties if inhaled		
Pictogram(s) or Symbol(s):			
Precautionary Statement(s): [Prevention] [Response] [Disposal]	Avoid breathing dust, fume, mist, vapors or spray. Wear respiratory protection. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or doctor. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).		
Hazards not otherwise classified: [HNOC]	None.		

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Chemical Formula: Substance α-Amylase diluted with Starch, from Bacillus amyloliquefaciens .... 9000-90-2

4. FIRST-AID MEASURES			
Description of first aid measures Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON		
Skin contact:	CENTER or doctor/physician if you feel unwell. Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation		
Eye contact:	or rash occurs: Get medical advice/attention. 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.		
Ingestion:	Get medical advice/attention if you feel unwell. Rinse mouth.		
Symptoms/effects: Acute: Delayed:	No data available No data available		
Indication of any immediate medical attended to the second state of the second state o	ention:		
5. FIRE-FIGHTING MEASURES			
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.		
Hazardous combustion products: Other specific hazards:	None Closed containers may explode from heat of a fire.		
Advice for firefighters:	Wear self-contained breathing apparatus if possible.		
6. ACCIDENTAL RELEASE MEASU	RES		
Personal precautions, protective equipment and emergency procedures:	Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.		
Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains.		
7. HANDLING AND STORAGE			
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.		
Conditions for safe storage, including an Storage conditions:	Avoid contact with skin, eyes and clothing. <b>ny incompatibilities</b> Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store away from incompatible materials such as oxidizing agents. Hygroscopic		
Packaging material:	Comply with laws.		
8. EXPOSURE CONTROLS / PERSC	NAL PROTECTION		
Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust as possible so that workers should not be exposed directly. Also install safety shower and eye bath.		
Personal protective equipment Respiratory protection: Hand protection: Eye protection: Skin and body protection:	Dust respirator. Follow local and national regulations. Protective gloves. Safety glasses. A face-shield, if the situation requires. Protective clothing. Protective boots, if the situation requires.		

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state (20°C): Form: Colour: Odour: Odor threshold: Odour threshold:	Solid Crystal - Powder White - Almost white No data available No data available No data available				
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	No data available No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl Acetate=1):	No data available No data available. No data available No data available No data available		
Flash point: Flammability(solid, gas): Solubility(ies): [Water]	No data available No data available No data available	Autoignition temperature: Flammability or explosive limits: Lower: Upper:	No data available No data available No data available		
[Other solvents]	No data available				
10. STABILITY AND REACTIN	/ITY				
Reactivity:No data availableChemical stability:Stable under proper conditions.Possibility of hazardous reactions:No special reactivity has been reported.Incompatible materials:Oxidizing agentsHazardous decomposition products:Carbon monoxide, carbon dioxide etc					
11. TOXICOLOGICAL INFORI	MATION				
RTECS Number: BU7432500					
Acute Toxicity: orl-rat LD50:>7500 mg/kg ihl-mam TCLo:15 mg/m <sup>3</sup> orl-mus LD50:>15 g/kg					
Skin corrosion/irritation: No data available					
Serious eye damage/irritation: No data available					
<b>Respiratory or skin sensitization</b> No data available	:				
Germ cell mutagenicity: No data available					
Carcinogenicity: No data available					
IARC: No data available	NTP: No da	ta available OSHA	: No data available		
<b>Reproductive toxicity:</b> No data available					

Target organ(s):

No data available

12. ECOLOGICAL INFORMATION				
Ecotoxicity:				
Fish:	No data available			
Crustacea:	No data available			
Algae:	No data available			
Persistence / degradability:	No data available			
Bioaccumulative potential(BCF): Mobility in soil	No data available			
Log Pow:	No data available			
Soil adsorption (Koc):	No data available			
Henry's Law (PaM ³/mol):	No data available			
13. DISPOSAL CONSIDERATIONS				
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.			
Disposal of container:	Dispose of as unused product. Do not re-use empty containers.			
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.			
14. TRANSPORT INFORMATION				
DOT (US)	Non-hazardous for transportation.			
IATA	Non-hazardous for transportation.			
IMDG	Non-hazardous for transportation.			

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**TCI AMERICA** 

# 15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regu CERCLA Hazardo SARA 313: SARA 302:	lations_ ous substance and Rep	Not Listed Not Listed	
State Regulations State Right-to-Kn Massachusel New Jersey Pennsylvania California Propos	ow ts	Not Listed Not Listed Not Listed Not Listed	
Other Information NFPA Rating: Health: Flammability: Instability:	2 0 0		HMIS Classification: Health: Flammability: Physical:
International Inve Canada: DSL EC-No:	entories	On DSL 232-565-6	

# 16. OTHER INFORMATION

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.