

Revision number: 3 Revision date: 10/06/2014

1. IDENTIFICATION

Product	name:
Product	code:

Zein from Corn Z0001

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

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:	Not classifiable
Signal word:	None
Hazard Statement(s):	None
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s):	None

Supplementary Information:

While this material is not classified as hazardous under OSHA, this SDS contains valuable information critical to safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components:	Substance Zein from Corn
Percent:	
CAS Number:	9010-66-6
Chemical Formula:	

4. FIRST-AID MEASURES

Inhalation:	Move victim to fresh air. Call emergency medical service. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin contact:	Remove and isolate contaminated clothing and shoes. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye contact:	Move victim to fresh air. Check for and remove any contact lenses. In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

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

TCI AMERICA

SAFETY DATA SHEET

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

Ingestion:	If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat.				
Rinse mouth. Keep victim warm and quiet. Loosen tight clothing such as a collar, tie, belt or v swallowed, seek medical advice immediately and show the container or label. Treat symptom supportively. Ensure that medical personnel are aware of the material(s) involved and take pr protect themselves. Effects of exposure (ingestion) to substance may be delayed.					
Symptoms/effects:					
Acute: Delayed:	No data available No data available				
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.				
5. FIRE-FIGHTING MEASURES					
Suitable extinguishing media:	Dry chemical, CO ₂ , water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.				
Specific hazards arising from the che Hazardous combustion products: Other specific hazards:	mical None Closed containers may explode from heat of a fire.				
Special precautions for fire-fighters: Not available Special protective equipment for fire- Structural fire fighters' protective clothin	fighters: g provides limited protection in fire situations ONLY; it may not be effective in spill situations.				
6. ACCIDENTAL RELEASE MEAS	SURES				
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Crystal - Powder White - Reddish yellow No data available No data available

9. PHYSICAL AND CHEMICAL PROPERTIES Solid

Physical state (20°C):	
Form:	
Color:	
Odor:	
Odor threshold:	

Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	No data available No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity	No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log Pow)	No data available	Evaporation rate: (Butyl Acetate = 1)	No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition tempe Flammability or ex Lower:	
		Upper:	No data available

Solubility(ies):

10. STABILITY AND REACTIVITY

Reactivity: **Chemical Stability:** Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products:

Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available

11. TOXICOLOGICAL INFORMATION

Acute Toxicit No data availa					
Skin corrosio No data availa					
Serious eye c No data availa	lamage/irritation: ble				
Respiratory o No data availa	or skin sensitization: ble				
Germ cell mu No data availa					
Carcinogenic	ity:				
No data availa	ble				
IARC:	No data available	NTP:	No data available	OSHA:	No data available
Reproductive No data availa					

Routes of Exposure: Symptoms related to exposure:

Inhalation, Eye contact, Ingestion.

No specific information is available in our data base regarding the toxic effects of this material for humans. However, exposure to any chemical should be kept to a minimum. Always follow safe industrial hygiene practices and wear proper protective equipment when handling this compound. **Potential Health Effects:**

No specific information available; skin and eye contact may result in irritation. May be harmful if inhaled or ingested. No data available Target organ(s):

12. ECOLOGICAL INFORMATION

Ecotoxicity Fish: Crustacea:	No data available No data available No data available
Algae:	
Persistence and degradability: Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available No data available
Partition coefficient:	No data available
n-octanol/water (log Pow)	
Soil adsorption (Koc):	No data available
Henry's Law: constant (PaM³/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.
Disposal of container:	Dispose of as unused product.
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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15. REGULATORY INFORMATION

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

US Federal Regulations

CERCLA Hazardo SARA 313: SARA 302:		rtable Quantity: Not Listed Not Listed	
State Regulations	_		
State Right-to-Kno	w		
Massachus New Jerse Pennsylva California Propos	y nia	Not Listed Not Listed Not Listed Not Listed	
Other Information			
NFPA Rating:			HMIS Classification:
Health: Flammability: Instability:	0 0 0		Health: Flammability: Physical:
Internetional Inve			

International Inventories

WHMIS hazard class: EC-No:

No data available. 232-722-9

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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 gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.