

Material Safety Data Sheet (MSDS): Plant Enzymes

1) Identification of Substance/Preparation and Company/Undertaking

Product Name	Plant Enzyme
Address	HS Supplies, LLC 8650 Genesee Ave. Ste. 214-928612 San Diego, CA. 92192

2) Composition/Information on Ingredients

Chemical Name	Cellulases, Vitamins
Trade Name	Plant Enzymes
Chemical Family	Enzymes, Vitamins
CAS No.	9012-54-8
Product Appearance	Dark Brown

3) Hazard Identification

Potential Acute Health Affects	Repetitive inhalation of enzyme dust can sometimes induce sensitization and can potentially cause allergic type reactions in sensitized individuals. Enzymes can irritate both the skin and eyes
--------------------------------	---

4) Emergency and First Aid Procedures

Eyes	Check and remove any contact lenses. Flush immediately with water for a minimum of 15 minutes. Consult a physician or seek medical attention immediately.
Skin	Immediately wash skin with soap and water; pay particular attention to folds, crevices, creases and the groin area. Irritated area should be covered with an emollient/moisturizer. Remove contaminated clothing and wash before use. If irritation persists, consult a physician.
Serious Skin Contact	Wash skin with disinfectant soap and apply an anti-bacterial cream. Seek medical attention.
Ingestion	Do not induce vomiting. Drink plenty of water and loosen any restrictive clothing. If subject is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Inhalation	Remove subject to fresh air or a well ventilated area. Consult a physician.
Note:	If victim is unconscious, never induce vomiting nor give liquids. Place victim in a stable side position and keep warm. Seek immediate medical attention.

5) Fire and Explosion Hazard Data

Flammability of Product	May be combustible at high temperature.
Fire Fighting Media and Instructions - Small Fire	Use a DRY chemical powder.
Fire Fighting Media and Instructions - Large Fire	Use water spray, fog or foam. DO NOT USE water jet.
Special Fire Fighting Procedures	Fire fighters should use self-contained breathing equipment and protective clothing.
Special Remarks on Fire and Explosion Hazards	May form explosive dust-air mixture

6) Spill or Leak Procedures

Spills	Using an appropriate tool, place spilled material into a waste disposal container. Avoid formation of dust. Finish cleaning by applying water to the contaminated surface.
Waste Disposal	Observe local and regional regulations.

7) Handling and Storage

Precautions	Keep away from sources of ignition and high heat. Ground and electrically bond containers and equipment as to prevent electrostatic charges. Do not inhale dust, wear appropriate protective clothing and equipment in the event of insufficient ventilation. If you feel unwell, seek medical attention.
Storage	Store in a cool, dry and well ventilated location below 25 degrees C. Keep containers tightly closed. Combustible materials should always be stored away from extreme heat and strong oxidizing agents.

8) Exposure Controls/Special Protective Information

Engineering Controls	Make use of local exhaust ventilation, process enclosures and other appropriate controls to keep airborne levels below the recommended exposure limit.
Personal Protection	Utilize splash goggles, lab coats, dust respirator, gloves. Make sure to use an approved and or certified respirator or equivalent.
Personal Protection in the Event of a Large Spill	Utilize splash goggles, full suit, respirator, boots and gloves, self contained breathing apparatus and protective clothing. Consult a specialist BEFORE handling this product.

9) Physical and Chemical Properties

Physical State and Appearance	Solid, powdered solid.
Dens/Spec Gravity	676 kg/ml ³ (bulk)
Color	Light yellow/light brown
Melting Point	Decomposes
Solubility	In water

10) Reactivity and Stability Data

Stability	This product is stable.
Hazardous Polymerization	No
Corrosivity	Non-corrosive in presence of glass.

11) Toxicological Information

Routes of Entry	Inhalation, skin, eye contact, ingestion
Other Toxic Effects on Humans	Skin contact may cause irritation
Toxicity to Animals	Acute Oral Toxicity (LD50): >5,000 mg/kg [Rat] Inhalation Toxicity (LC50): >5 mg/4 hr [Rat]
Chronic Effects on Humans	May sensitize respiratory tract

12) Ecological Information

The preparation is biodegradable. Not harmful to aquatic and marine organisms when dissolved with copious amount of water.

13) Consideration Regarding Disposal

No special disposal method required.

14) Information Regarding Transport

Can be transported by air, railway, and vessel.

15) Regulatory Information

Health Hazard	2
Fire Hazard	0
Reactivity	0
Personal Protection	E
National Fire Protection Association (USA) Health	2
Flammability	1

16) Other Information:

Notice:

While this MSDS is based on technical data judged to be reliable, HS Supplies, LLC assumes no responsibility for the accuracy or completeness of the information contained herein. All chemicals may pose unknown hazards and should be used with caution. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use.

MSDS Creation Date: January 2016

Date: March, 2016