

Material Safety Data Sheet: Stubblex

Manufacturer's Name : Plant Needs

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1. Product Information

- **Product Name:** Plant Needs Stubblex
- **Family / Group:** Stubble decomposer
- **Chemical Formula :** Mixture
- **Other Designations :** Enzyme based stubble decomposer

2. Composition/Information on Ingredients

Components	Composition (%) W/W
Potassium humate	1% NLT
Fungal Diastase	300
Beta Amylase	500
Gluco amylase	150
Cellulase	1000
Hemicellulase	400
Pullulanase	400
Alkaline Protease	150
Beta Glucosidase	50
Mannanase	200
Pectinase	75
Xylanase	100
Phytase	200

Galactosidase	200
Xylanase	25
Surfactants	0.2-0.4%
Water	65-80%

3. Hazards Identification

Emergency Overview

The product is an,non-toxic, non-hazardous,non-inflammable with an almost neutral odour which is intended to be used as a stubble decomposer. There is no specific antidote for any form of irritation observed. Treat symptomatically. Immediately seek medical attention.

Potential Health Effects

- Routes(s) of Entry : Eye , Skin , Oral , Inhalation
- Human effects and symptoms of exposure: Causes irritation of eyes , skin or respiratory tract
- Acute eye contact: Causes irritation
- Chronic eye contact: Chronic exposure Is not likely from normal use
- Acute skin contact : May cause irritation
- Chronic ingestion : Chronic exposure Is not likely from normal use
- Medical conditions generally aggravated by exposure: Not known

4. First Aid Measures

If poisoning is suspected, consult a physician immediately/ visit the nearest hospital / nearest Poison control centre. The concerned examiner should be informed the complete product name and details and amount of exposure. Describe the symptoms and follow the advice given.

First Aid for Eyes

Immediately flush eyes with water for 20 minutes. Hold the eye lids apart to rinse the entire surface of eyes and lids. No medicating agents should be applied except on the advice of physician.

First Aid for Skin

Wash skin with soap and water, including hair and under finger nails. No medicating agents should be applied except on the advice of physician. Remove contaminated clothing and footwear.

First Aid for Inhalation

Move victim from contaminated area to fresh air. Apply artificial respiration, if necessary on advice of physician.

First Aid for Ingestion

The product is not harmful if ingested. If any irritation is observed give plenty of water to drink and consult a physician.

5. Fire fighting measures

Flash Point: Not applicable

Flammability Limits: Not available

Flammability of the product: May be combustible at high temperature.

Autoignition temp: Not applicable

Products of Combustion: Not available

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat. Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks

Fire Extinguishing Media: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Fire-Fighting Information: Wear full protective clothing and self contained breathing apparatus. Evacuate non essential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Use of contaminated buildings, area and equipment has to be avoided until decontaminated.

Unusual Fire and Explosion Hazards: None

Special Remarks on Fire Hazards: This is water based formulation and therefore no special risks of fire hazard is expected.

Special Remarks on Explosion Hazards: This is water based liquid formulation. Therefore there is no risk of any explosion / inflammability.

6. Accidental Release Measures

Safety gear :Wear chemical safety glasses with side shields or chemical proof goggles, rubber gloves, rubber boots , long sleeved shirt , long pants, head cap , NIOSH approved dust or pesticide respirator with a dust filter.

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. Handling and Storage

Storage Temperature	Room temperature (Not more than 40 degree Celsius)
Storage requirements	Store the material in a well ventilated, clean, cool and dry place out of reach of children and domestic animals. Keep away from direct sunlight.Keep containers tightly closed when not in use..
Shelf Life	Use before expiry date printed on label
Special sensitivity	None
Handling precautions	Follow normal hygienic and housekeeping standards for agricultural products.

8. Exposure Controls/ Personal Protection

Oral Protection Requirements	Avoid eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Always
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	wash thoroughly after handling the product
Eye protection equipments	To avoid eye contact, wear safety goggles
Skin protection requirements	To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants head cap.
Respiratory / Ventilation requirements	To avoid breathing dust, use adequate ventilation and wear a NIOSH-approved dust or pesticide respirator with a dust filter.

9. Physical and Chemical Properties

- Physical State : Liquid
- Colour: Light brown
- Specific Gravity : Specified in Certificate of analysis
- Bulk density: Not applicable
- Odour: Characteristic odour
- Miscibility : Soluble in water
- pH: Specified in Certificate of analysis
- Stability: Stable at normal storage conditions
- Corrosion: Nil
- Flash point: Not applicable
- % Volatile volume: Not determined
- Vapour pressure : Not determined
- Vapour density : Not determined
- Melting Point : Not determined
- Boiling Point : Not determined
- Freezing Point: Not determined
- Evaporation Rate : Not determined

10. Stability and Reactivity

- **Stability:** Product is stable.
- **Hazardous Polymerization:** Will not occur.
- **Hazardous Decomposition Products:** None

- **Decomposition** : Biodegradable
- **Incompatibility**: Strong acids , alkali compounds, oxidizing agents , disinfectants
- **Conditions to Avoid**: Heat, flames, ignition sources and incompatibles. Excessive temperature variations, below 0°C or above 40 °C.

11. Toxicological Information

Toxicological studies is not available.

12. Ecological Information

- Totally bio-degradable in nature
- Accumulation : Not anticipated to bioaccumulate.
- Do not apply on water bodies as it maybe toxic to aquatic life.
- The product contains non –pathogenic, non-hazardous and non-toxic, naturally occurring constituents.
- Other adverse effects: There is no ozone depletion, photochemical ozone creation or global warming potential.

13. Disposal Considerations

Do not reuse product packing materials and residues. Dispose the product packing materials and residues according to local state and federal health and environmental regulations.

Empty containers can be recycled Washings from spray equipments can be incorporated in soil in agricultural fields. Never use the empty containers for storing food or water

14. Transportation Information

- Transportation Data : The product is not regarded as hazardous material for all modes of transportation
- Hazard Class : Not applicable
- ID NO : Not applicable

15. Regulatory Information

The product does not come under the Pesticides Regulatory (Central Insecticides Board) and Fertilizer Regulatory (Fertilizer Control Order)

16. Other Information

Plant Needs provides the information contained herein in good faith, in compliance with the Occupational Safety and Health Act of 1970..To the best of our knowledge, the information contained herein is accurate. However Plant Needs does not assume 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 material may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards, which exist.

This product is for agricultural use only.

Note:

1. NIOSH :The National Institute for Occupational Safety and Health
2. WHMS : Workplace Hazardous Materials Information
3. TSCA : Toxic substances Control Act
4. CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act
5. SARA : Superfund Amendments and Re authorization Act
6. RCRA : Resource Conservation and Recovery Act of USA
7. MSDS : Material Safety Data Sheet
8. CPR : Controlled Products Regulation