

1. Identification

Product name: InnoAg PepRrhiza 250
Recommended use: Fertilizers
Supplier: Primary BioAg Innovations™
P.O. Box 35
American Fork, UT 84003
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No additional information available

Issue date: 08/11/2020

2. Hazard(s) identification

Classification:

| Physical hazards | Health hazards |
|------------------|----------------|
| Combustible Dust | Not classified |

GHS US labeling:

Warning!

| Hazard statements (GHS US) | Precautionary statements (GHS US) |
|---|-----------------------------------|
| May form combustible dust concentrations in air | Not required |

3: Composition/Information on ingredients

| Component | CAS-No. | Amount (%) |
|--------------------------|--------------|------------|
| Non-Hazardous Ingredient | Trade Secret | <= 100 |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

4. First-aid measures

Inhalation: Move the affected person to the fresh air. Get medical attention if symptoms occur.

Skin: Gently wash with plenty of soap and water. Wash contaminated clothing before reuse.

Eyes: Rinse eyes with water as a precaution. Get medical attention if irritation develops and persists.

Ingestion: Call a poison center or a doctor if you feel unwell.

Symptoms/effects: May cause minor eye irritation. May cause minor irritation to the respiratory tract and to other mucous membranes.

Immediate medical attention and special treatment, if necessary: Not required.

5. Fire-fighting measures

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use water jet.

Fire hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. On combustion, forms: carbon oxides (CO and CO2).

Special protective equipment and precautions for fire-fighters: Fight fire from safe distance and protected location. Prevent fire-fighting water from entering environment. Do not attempt to take action without suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing.

Methods and material for containment and cleaning up: Mechanically recover the product. Use non-sparking tools. Avoid dispersal of dust in the air (i.e, clearing dust surfaces with compressed air). Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Wash hands with water and soap.

Storage conditions: Protect from moisture. Keep away from heat and direct sunlight.

8. Exposure controls/personal protection

Exposure guidelines:

| | |
|------------------------------------|---|
| Non-Hazardous Ingredient (as PNOC) | 5 mg/m ³ (Respirable Fraction) TWA OSHA PEL; 15 mg/m ³ (Total dust) TWA OSHA PEL; |
|------------------------------------|---|

Appropriate engineering controls: It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Environmental exposure controls: Avoid release to the environment.

Personal protective equipment:

Hand protection: In case of repeated or prolonged contact wear gloves

Eye protection: In case of dust production: protective goggles

Skin and body protection: Wear suitable protective clothing

Respiratory protection: In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and chemical properties

Appearance: Granular solid.

| | | | |
|--|---------------------|-----------------------------------|---------------------|
| Physical state | : Solid | Specific gravity / density | : < 1 |
| Color | : Brown | Solubility | : Soluble in water. |
| Odor | : odorless | Log Pow | : No data available |
| Odor threshold | : No data available | Auto-ignition temperature | : Not applicable |
| pH | : No data available | Decomposition temperature | : No data available |
| Melting point | : No data available | Viscosity, kinematic | : Not applicable |
| Freezing point | : Not applicable | Viscosity, dynamic | : No data available |
| Boiling point | : No data available | Explosion limits | : Not applicable |
| Flash point | : Not applicable | Explosive properties | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available | Oxidizing properties | : No data available |
| Flammability (solid, gas) | : Non flammable. | | |
| Vapor pressure | : No data available | | |
| Relative vapor density at 20 °C | : No data available | | |
| Relative density | : No data available | | |

No additional information available

10. Stability and reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Avoid dust formation. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials: None known.

Hazardous decomposition products: Thermal decomposition generates: Carbon monoxide. Carbon dioxide.

11. Toxicological information

Inhalation: May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin: May cause slight irritation to the skin.

Eyes: May cause minor eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms: None known.

Carcinogenicity: Not classified

Non-Hazardous Ingredient: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Numerical measures of toxicity:

The following are the toxicity values for the components:

| | |
|--|------------------------------|
| Non-Hazardous Ingredient: | Oral rat LD50- > 2000 mg/kg; |
| Skin corrosion/irritation | Not classified |
| Serious eye damage/irritation | Not classified |
| Respiratory or skin sensitization | Not classified |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |

12. Ecological information

Ecology - general: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| | |
|---------------------------------------|-------------------|
| Persistence and degradability: | No data available |
| Bioaccumulative potential: | No data available |
| Mobility in soil: | No data available |

Other adverse effects:

No data available

13. Disposal considerations

Regional legislation (waste): Dispose of in accordance with applicable federal, state, and local regulations.

14. Transport information

Department of Transportation (DOT)

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

15. Regulatory information

SARA Section 313 - Emission Reporting: Not subject to reporting requirements of the United States SARA Section 313

CERCLA Section 103:

This product is not subject to reporting under CERCLA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA 302:

Not applicable

SARA Section 311/312 Hazard Classes: Refer to Section 2 for OSHA Hazard Classification.

California Proposition 65:

California Proposition 65 – Currently not available.

TSCA: TSCA Status is currently not available.

16. Other information

Revision date : 08/11/2020
Other information : Refer to NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, for safe handling.

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. The company listed in Section 1 shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.