



SAFETY DATA SHEET

According to Federal Regulation 29 CFR 1910.1200

SECTION 1: Identification of the substance/mixture and of the company

Product name: **DIEHARD™ Nature Safe**
Type of product: Product is Granular

1.1 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Processing aid for industrial applications.

1.2 Details of the supplier of the safety data sheet

Company: Horticultural Alliance Inc.
Address: 1550 66th Avenue Drive, East
Sarasota, FL 34243
United States
Telephone: 800-628-6373
Telefax: 888-386-4478
E-mail: info@horticulturalalliance.com

1.3 Emergency telephone numbers

24-hour emergency number: 800-424-9300 CHEMTREC (CNN 20412), Outside U.S. 703-527-3887

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Hazard symbol (s): Warning Irritant (skin, eyes and nose).
Signal word: Warning.
Hazard statement(s): None.
Precautionary statement(s): None.

2.3 Other hazards

Emergency overview

HEALTH HAZARDS Practically non-toxic

FLAMMABILITY HAZARDS Dust accumulations in an enclosed space may present an explosion hazard.

REACTIVITY HAZARDS

Stable

Potential health effects

Routes of exposure Inhalation, ingestion, skin and eye contact

Eyes If contact with eyes, flush eyes with plenty of water for at least 15 minutes lifting upper and lower eye lids occasionally. Get medical attention if irritation persists.

Skin Prolonged or excessive skin contact with this product may cause mild skin irritation. May cause an allergic reaction in some individuals.

Inhalation Under normal condition, inhalation is not expected to be a problem. However, respirator tract irritation may occur if exposed to dust

Ingestion Ingestion of large amounts may cause gastrointestinal disturbances. May cause allergic reactions in some individuals.

Recommendations to physicians: Treat symptoms and eliminate overexposure

SECTION 3: Composition/information on ingredients

| Components : | CAS# | Percent |
|--|-------------|----------------|
| Animal byproducts, Mineral additives | N/A | 100% |
| Chemical Family: | | |
| Proteinaceous animal and mineral additives | N/A | 100% |
| Formula: | | |
| Animal byproducts | N/A | 70-80% |
| Mineral additives | 14977-37-8 | 20-30% |
| Synonyms: | Unkown | |

Composition comments: Values do not reflect absolute minimums and maximums: these values are typical which may vary from time to time

SECTION 4: First Aid Measures

| | |
|--------------------|--|
| Inhalation: | High dust concentrations may cause mucous membrane irritation. If irritation persists or breathing difficulty occurs, get medical attention . |
| Skin contact: | Wash area thoroughly with soap and water. Get medical attention if irritation develops or persists |
| Eye contact: | Flush eyes immediately with large amounts of water. Get medical attention if irritation persists. |
| Ingestion: | Routine use of this product is not expected to cause any situation which could lead to ingestion. If this product is swallowed call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water), to someone who is unconscious, having convulsions or unable to swallow. |
| Other information: | Notes to physician Treat symptomatically. |

SECTION 5: Fire-fighting measures

| | |
|---|--|
| Flammable properties: | Material should not burn in a fire unless it contains a substantial fat/oil/feather component. Concentrated dust in an enclosed space can pose an explosive threat. |
| Extinguishing media: | Use water spray, dry chemical, carbon dioxide or fire-fighting foam for Class A or B fires to extinguish fire. |
| Suitable extinguishing media: | Combustion may produce COx and other decomposition products oxides of sulfur and nitrogen. |
| Protection of firefighters: | Evacuate area and fight fire from a safe distance. |
| Specific hazards arising from the chemical: | Use water spray to cool adjacent structures and to protect personnel. |
| Fire fighting equipment & instructions: | Firefighters must wear NIOSH approved positive pressure breathing apparatus (SCBA) with full face mask and full protective equipment. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: None
Protective equipment: Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection)

Emergency procedures: Keep people away from spill/leak.

6.2 Environmental precautions

As with all chemical products, do not flush into surface water.

6.3 Methods and material for containment and cleaning up

Clean up promptly by scoop or vacuum. Avoid stirring up dust. Sweep up under a water mist to reduce dust potential. If contact with skin occurs, wash skin with soap and water. Keep in suitable and closed containers for disposal.

6.4 Reference to other sections

Section 7: Handling and storage; Section 8: Exposure controls/personal protection; Section 9: Physical and chemical properties; Section 13: Disposal considerations.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of the workday.

7.2 Conditions for safe storage, including any incompatibilities.

Keep in dry place, cool place (0-35C). Keep container closed when not in use. Keep dry to avoid biological decomposition.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits:
None

8.2 Exposure Controls:

Appropriate engineering controls:

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Individual protection measures such as personal protective equipment

- a) Eye/face protection:
Safety glasses with side-shields
- b) Skin protection:
Not mandatory use protective clothes
- c) Respiratory protection:
Dusty safety masks are recommended where concentration of the total dust is more than 10mg/m³
- d) Additional advice:
Handle in accordance with good industrial hygiene and safety practice
- e) Hand protection:

Not mandatory use protective clothes

Environmental exposure controls:

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties

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|--|--|
| a) Appearance: | Tan to dark brown particles |
| b) Odor: | Slight – earth smell |
| c) Odor Threshold: | Not applicable |
| d) pH: | Not applicable |
| e) Melting point/freezing point: | Not applicable |
| f) Initial Boiling point and boiling range: | Not applicable |
| g) Flash point: | Not applicable |
| h) Evaporation rate: | Not applicable |
| i) Flammability (solid, gas): | No data available |
| j) Upper/lower flammability or explosive Limits: | Keep away from heat and flame |
| k) Vapor pressure: | Not applicable |
| l) Vapor density: | Not applicable |
| m) Relative density: | 0.4 – 0.6 |
| n) Solubility (ies): | Soluble |
| o) Partition coefficient: | Not applicable |
| p) Autoignition temperature: | Does not self-ignite (based on the chemical structure) |
| q) Decomposition temperature: | Not applicable |
| r) Viscosity: | Not applicable |
| s) Explosive properties: | Not expected to be explosive based on the chemical structure |
| t) Oxidizing properties: | Not expected to be oxidizing based on the chemical structure |

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

None known

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Presents no significant reactivity hazard

10.4 Conditions to avoid

Avoid explosive dust concentrations

10.5 Incompatible materials

Incompatible with strong acids and oxidizing agents

10.6 Hazardous decomposition products

None known

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on the product as supplied:

| | |
|------------------------------------|---|
| Acute oral toxicity: | Persons with acute allergies could become asthmatic (rare); Allergies could develop over time in some individuals. Persons with mold allergies could experience hay fever with sneezing and nasal congestion. |
| Acute dermal toxicity: | Skin allergy could develop from special repeated excess skin contact, involving itching and rash (rare). |
| Acute inhalation toxicity: | Avoid inhalation |
| Skin corrosion/irritation: | Not irritating |
| Serious eye damage/eye irritation: | Not irritating |
| Respiratory/skin sensitization: | Not sensitizing |
| Mutagenicity: | Not mutagenic |
| Carcinogenicity: | Not carcinogenic |
| Reproductive toxicity: | Not toxic for reproduction |
| STOT – single exposure: | No known effects |
| STOT – repeated exposure: | No known effects |
| Aspiration hazard: | No hazards resulting from the material as supplied |

SECTION 12: Ecological information

12.1 Toxicity

Information on the product as supplied:

| | |
|------------------------------------|-------------------|
| Acute toxicity to fish: | No Data available |
| Acute toxicity to invertebrates: | No Data available |
| Acute toxicity to algae: | No Data available |
| Chronic toxicity to fish: | No Data available |
| Chronic toxicity to invertebrates: | No Data available |
| Toxicity to microorganisms: | No Data available |
| Effects on terrestrial organisms: | No known effects |
| Sediment toxicity: | No Data available |

12.2 Persistence and degradability

Information on the product as supplied:

| | |
|--------------|--------------------|
| Degradation: | Biodegradable. |
| Hydrolysis: | Does not hydrolyse |
| Photolysis: | No data available |

12.3 Bioaccumulative potential

Information on the product as supplied:

| | |
|------------------------------------|-------------------|
| Not bioaccumulating. | |
| Partition co-efficient (Long Pow): | No Data available |
| Bioconcentration factor (BCF): | No Data available |

12.4 Mobility in soil

Information on the product as supplied:

None

12.5 Other adverse effects

None known

SECTION 13: Disposal considerations

13.1 Waste treatment methods.

Waste from residues/unused products:

Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Contaminated packaging:

Dispose in accordance with local and national regulations. Can be landfilled or incinerated, when in compliance with local regulations.

Recycling:

The product and its packaging are not suitable for recycling.

SECTION 14: Transportation information

Land transport (DOT)

Not classified

Sea transport (IMDG)

Not classified

Air transport (IATA)

Not classified

SECTION 15: Regulatory information:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:

SARA (Section 311/312) hazard class:

Not concerned

RCRA status:

Not RCRA hazardous.

California Proposition 65 information

NFPA and HMIS Ratings:

NFPA:

Health: 0

Flammability: 0

Instability: 0



HMIS:

Health: 0

Flammability: 0
Physical Hazard: 0
PPE Code: 0

This data sheet contains changes from the previous version in section(s):

SECTION 2. Hazards identification, SECTION 3. Composition/information on ingredients, SECTION 4. First aid measures, SECTION 11. Toxicological information, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet.

None

This SDS was prepared in accordance with the following:

Federal Regulation 29 CFR 1910.1200

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.