

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: HISTICK® N/T
Product Code: MBR/HSNT
EPA Number: 71840-2

Manufacturer Information: Becker Underwood, Inc.
 801 Dayton Avenue
 Ames, Iowa 50010
 Information Phone: (515) 232-5907
 Emergency Phone: Chemtrec (800) 424-9300 or 703 527 3887 (international)

Hazardous Material Information System:

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	X

Section 2. Hazard Identification

Emergency Overview: May cause respiratory tract, eye, and skin irritation.

Potential Acute Health Effects:

- Eyes:* Short term harmful effects are not expected. However, prolonged or repeated contact may result in irritation.
- Skin:* Short term harmful effects are not expected. However, prolonged or repeated contact may result in irritation.
- Inhalation:* Short term harmful effects are not expected. However, prolonged inhalation may lead to respiratory tract irritation.
- Ingestion:* Not an intended route of exposure. Short term harmful effects are not expected. However, ingestion of large quantities may be harmful.

Section 3. Composition/Information on Ingredients

The composition of this material is a trade secret. Contains no other components or impurities which will influence the classification with regard to human and environmental risk assessment.

Section 4. First Aid Measures

- Eye Contact:** Immediately flush eyes with water for at least 15 minutes. Prolonged or repeated contact may result in mechanical irritation. Seek medical attention.
- Skin Contact:** Wash with soap and water. If irritation develops consult a physician. Remove and launder contaminated clothing before reuse.
- Inhalation:** If difficulty in breathing occurs, move to fresh air. Seek medical attention if irritation persists.
- Ingestion:** Seek medical attention. Unless advised otherwise, dilute with water or milk.

Section 5. Fire Fighting Measures

- Flash Point:** >200°F
- Flammability of Product:** Not a fire or explosion hazard when stored under normal conditions.
- Fire Fighting Media:** Water spray, class A extinguisher.
- Protective Clothing:** No special procedures required besides standard fire fighting procedures.

Section 6. Accidental Release Measures

Clean-Up Procedures: Scoop-up material and place in properly labeled and closed container. Dispose of collected material according to federal, state/provincial and local environmental regulations.

Spills and Leaks: Contain the spill to prevent discharges to surface streams or storm sewers. Material is non-hazardous.

Section 7. Handling and Storage

Handling: General mechanical ventilation can be expected to effectively remove and prevent build up of any dust generated from handling this product in a closed environment. Do not freeze. Protect eyes to prevent contact. Avoid prolonged or repeated exposure to skin.

Storage: Keep container in a dry place inaccessible to children and pets at temperatures above freezing. Keep containers sealed until ready for use.

Section 8. Exposure Control/Personal Protection

Hazardous Components		Occupational Exposure Limits		
Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent
Rhizobial cells	Proprietary	15 mg/m ³	15 mg/m ³	2 Billion per gram
<i>Bacillus subtilis</i>	Proprietary	15 mg/m ³	15 mg/m ³	200 Million per gram
Inert Carrier	Proprietary	15 mg/m ³	15 mg/m ³	Proprietary
No reportable quantities of hazardous ingredients are present				
No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present				

Engineering controls: General mechanical ventilation can be expected to effectively remove and prevent build up of any dust generated from handling this product in a closed environment.

Personal Protection:

- Eyes:* Safety glasses are recommended. Have an eye wash station available.
- Body:* To prevent skin contact use coveralls, apron, boots, or lab coat.
- Hands:* Avoid skin contact by using chemically resistant gloves.
- Respiratory:* Use local exhaust to control excessive dust. If excessive dust is present, use appropriate NIOSH/MSHA approved respirator.

Other: Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks. Clean clothing should be worn daily to avoid possible long-term build up of the product leading to chronic overexposure.

Section 9. Physical and Chemical Properties

Odor	Earthy odor	Vapor Density	NA
Color	black	Evaporation Rate	NA
Physical state	Damp powder	Specific Gravity (H₂O = 1)	NA
pH	NA	Solubility	Insoluble
Melting/Freezing Point	NA		

Section 10. Stability and Reactivity

Chemical Stability:	This material is chemically stable under normal storage and handling conditions.
Hazardous Decomposition:	When involved in a fire, burning may evolve noxious fumes which may include carbon monoxide, carbon dioxide, nitrous oxides, acetic acid, or other toxic compounds depending on the chemical composition and combustion conditions.
Hazardous Polymerization:	Is not known to occur.
Incompatibility (Materials to Avoid):	Long term storage in direct contact with reactive metals such as aluminum, zinc, copper, nickel, magnesium, etc. Other materials to avoid include strong oxidizing agents. Also avoid extremes in temperature and high humidity.

Section 11. Toxicological Information

Chronic Toxicity:	None known
Mutagenic Effects:	None known
Teratogenic Effects:	None known
Developmental Toxicity:	None known
Acute Effects on Humans:	May cause skin, eye, and respiratory irritation.
Sensitization:	Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause respiratory tract and lung sensitization.
Carcinogenic Effects:	This material is not known to cause cancer in animals or humans.
Existing Medical Conditions Aggravated By Exposure:	May provoke asthmatic response in persons with asthma who are sensitive to airway irritants.

Section 12. Ecological Information

Ecotoxicity:	No data available, however the material is not expected to have any deleterious toxic effect.
Environmental Fate:	No data available regarding the environmental fate or biodegradation.

Section 13. Disposal Considerations

EPA Waste Number:	Non-hazardous waste
Treatment:	Dispose of according to all federal, state/provincial and local environmental regulations.

Section 14. Transport Information

D.O.T. Classification:	Not regulated
IMO/IMDG Classification:	Not regulated
IATA Classification:	Not regulated

Section 15. Regulatory Information

US Federal Regulations:

Product Information: This product is not considered hazardous.

SARA 311/312:

Acute: No
Chronic: No
Fire: No
Pressure: No
Reactive: No

SARA 313: No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present.

Regulatory Listings

United States (TSCA): Listed

Section 16. Other Information

Revision:	3
Revision date:	December 1, 2011
Supersedes:	January 4, 2010

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