

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: SUBTILEX NG EPA Registration # 71840-8

Product Code: MBL/MBI600 Effective Date: January, 19 20

January, 19 2011 Hazardous Material Information System III:

Manufacturer Information: Becker Underwood, Inc. 801 Dayton Avenue

Ames, Iowa 50010

Information Phone: (515) 232-5907

Emergency Phone: Chemtrec (800) 424-9300

Health	1
Fire Hazard	1
Physical Hazard	0
Personal Protection	X

Section 2. Ingredients and Hazards Identification

Hazardous Components		Occupational Exposure Limits			
Component	CAS Number	OSHA PEL	ACGIH TLV	Weight Percent	
Bacillus subtilis	Proprietary	NE	NE	Proprietary	
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***					

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

Potential Acute Health Effects:

Eyes: Short term harmful effects are not expected. However, irritation may develop causing itching and

redness.

Skin: Short term harmful effects are not expected. However, mild skin irritation may develop causing

itching and redness.

Inhalation: Exposure to dust may cause coughing or wheezing when inhaled. May provoke asthmatic response in

persons with asthma who are sensitive to airway irritants.

Ingestion: Not an intended route of exposure. Ingestion of large quantities may be harmful.

Section 3. Composition/Information on Ingredients

The composition of this material is a trade secret and 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.

Skin Contact: Wash with soap and water. If irritation develops consult a physician. Remove and

launder contaminated clothing before reuse.

Inhalation: Move to fresh air. Seek medical attention if irritation develops.

Ingestion: Seek medical attention. Get immediate medical attention. Unless advised otherwise, dilute with water

or milk then induce vomiting.

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Section 5. Fire Fighting Measures

Flammability of

Not a fire or explosion hazard when stored under normal conditions. Explosion is possible when

Product:

product is finely dispersed in air.

Fire Fighting Media:

Foam, alcohol foam, CO2, dry chemical, water fog.

Protective Clothing:

No special procedures required besides standard fire fighting procedures.

Section 6. Accidental Release Measures

Clean-Up Procedures:

Vacuum or use wet clean-up techniques 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.

Section 7. Handling and Storage

Handling: Avoid breathing dust. 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. Protect

eyes to prevent contact. Avoid prolonged or repeated exposure to skin.

Storage: Keep container in a dry place inaccessible to children and pets. Store between 0° to 40°C. Do not

freeze. Keep containers sealed until ready for use.

Section 8. Exposure Control/Personal Protection

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: Wear safety glasses. Have an eye wash station available.

Body: To prevent skin contact wear coveralls, apron, boots, or lab coat.

Hands: Avoid skin contact by using gloves.

Respiratory: Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards

of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can

cause allergic sensitization.

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	Musty odor	Vapor Density	NA
Color	Beige/white	Evaporation Rate	NA
Physical state	Powder	Specific Gravity	NA
		$(\mathbf{H}_20=1)$	
pН	NA	Solubility	Water soluble
Melting/Freezing Point	NA		

Section 10. Stability and Reactivity

Chemical Stability: This material is chemically stable under normal storage and handling conditions.

Hazardous When involved in a fire, burning may evolve noxious fumes which may include carbon monoxide, **Decomposition:**

carbon dioxide, nitrous oxides, acetic acid, or other toxic compounds depending on the chemical

composition and combustion conditions.

Hazardous Is not known to occur.

Polymerization:

Incompatibility Long term storage in direct contact with reactive metals such as aluminum, zinc, copper, nickel,

(Materials to Avoid): magnesium, etc. Other materials to avoid include strong oxidizing agents.

Conditions to Avoid: High humidity. Extremes in temperature. Microorganisms denature at >50°C

Section 11. Toxicological Information

Chronic Toxicity: None known None known **Mutagenic Effects:** None known **Teratogenic Effects:** None known **Developmental**

Toxicity:

Acute Effects on May cause skin, eye, and respiratory irritation.

Humans:

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** Not regulated

Classification:

IATA Classification: Not regulated

Section 15. Regulatory Information

Hazardous Material Information System III:

Health	1
Fire Hazard	1
Physical Hazard	0
Personal Protection	X

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

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