



SAFETY DATA SHEET

MYCOFOAM

Compliant SDS for GHS: HazCom 2012 / United States

Reviewed on 02/22/2017

1. Identification

Product identifier:

Product name MycoFoam™

Other means of identification:

SDS number 01

Recommended use and restrictions on use

Recommended use Product is a natural-based material, primarily used for protective packaging.

Restrictions on use No information available.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier
Ecovative Design, LLC
70 Cohoes Avenue
Green Island,
NY 12183.

E-Mail jeffbetts@ecovatedesign.com

Emergency Telephone Number Jeff Betts: 518-273-3753.

2. Hazard(s) identification

Classification of the substance or mixture

Physical Hazards Not classified.

Health Hazards Not classified.

Environment Hazards Not classified.

OSHA defined hazards Not classified.

GHS Label elements

Hazard symbol Not applicable.

Signal word Not applicable.

Hazard statements Not applicable.

Hazard(s) not otherwise classified (HNOC) None Known.

Supplemental information

Product in its normal finished form is a negligible or very low hazard for typical industrial and commercial applications. However, cutting, grinding, drilling, shredding, sanding or other generation of finely divided powder in large quantities may create Combustible Dusts. Accumulations of powdered material may form explosive dust-air mixtures. Keep away from all ignition sources including heat, sparks and flame. Keep container closed and grounded. Prevent dust accumulations to minimize explosion hazard. Contains natural biological materials. Some individuals may experience allergic skin or respiratory sensitization.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Corn Stover	NA	40-45
Hemp Pith	NA	40-45
Trade secret	NA	5-10
Wheat Flour	NA	1-5
Proprietary	NA	1-5

Comments: The specific identities of one or more components of this product are withheld as a trade secret.

4. First-aid measures

Description of necessary first aid measures:

Inhalation	Remove from exposure and get medical attention if allergic.
Skin contact	In case of excessive contact, wash skin with soap and water. In case skin rash or irritation develops, get medical attention.
Eye contact	In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes.
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.
The most important symptoms and effects, both acute or delayed	Contains natural biological materials. Some individuals may experience allergic skin or respiratory sensitization.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water spray. Carbon dioxide (CO ₂) Dry chemical.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Accumulations of powdered material may form explosive dust-air mixtures.
Special protective equipment and precautions for firefighters	<p>Precautionary Measures Fire: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</p> <p>Firefighting Instructions: In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk.</p> <p>Protection During Firefighting: Cool containers exposed to flames with water until well after the fire is out.</p>

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Avoid dust formation. Use personal protective equipment. See section 8.
Environmental precautions	No special environmental precautions required.
Methods and materials for containment and cleaning up	Wash the spillage site with large amounts of water. Sweep up and shovel into suitable containers for disposal. Do not use any procedure which causes dispersion of dust into the air if any possibility of ignition exists.

7. Handling and storage

Precautions for safe handling

Avoid dust formation in confined areas. Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage. Keep in a dry, cool and well-ventilated place. Store at room temperature. Avoid excessive moisture and protect from sparks and open flame.

8. Exposure controls/personal protection

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None of the components in this product is listed.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

None of the components in this product is listed.

US. OSHA Table Z-2 (29 CFR 1910.1000)

None of the components in this product is listed.

US. OSHA Table Z-3 (29 CFR 1910.1000)

None of the components in this product is listed.

US. ACGIH Threshold Limit Values

Components

Clear flour

Type

TLV-TWA

Value

0.5 mg/m³

US. NIOSH: Pocket Guide to Chemical Hazards

None of the components in this product is listed.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment



Respiratory equipment

None normally required. General room ventilation is normally adequate. In case of inadequate ventilation in the presence of high dust concentrations, such as during cutting and drilling, use a NIOSH-approved respirator for dust (e.g., N95).

Hand protection

None normally required.

Eye/Faceprotection

Safety glasses are recommended as minimum industrial eye protection when handling bulk product. Goggles may be required for dusty conditions.

Other protection

None normally required.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	Solid.
Color	Not available.
Odor	A woody debris odor.
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point/Boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower flammability/explosive limit	Not available.
Upper flammability/explosive limit	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Specific gravity	7 lbs/ft ³ .
Solubility	Not soluble.
Partition coefficient - n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid exposure to excessive heat, spark, open flame and other sources of ignition in areas of storage or use.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Thermal oxidation (i.e., "burning") may produce irritating decomposition products.

11. Toxicological information

Information on likely routes of exposure

Inhalation	No information available.
Ingestion	No information available.
Skin contact	No information available.
Eye contact	No information available.
Symptoms related to the physical, chemical and toxicological characteristics	No information available.
Delayed and immediate effects and chronic effects from short- and long-term exposure	Contains natural biological materials. Some individuals may experience allergic skin or respiratory sensitization.
Numerical measures of toxicity	
Acute toxicity	No information available.

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	
Respiratory sensitization	No information available.
Skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
Specific target organ toxicity – single exposure	No information available.
Specific target organ toxicity – repeated exposure	No information available.
Aspiration hazard	No information available.

12. Ecological information

Ecotoxicity

Contains no substances known to be hazardous to the environment.

Numerical measures of toxicity	No data available.
Persistence and degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
Contaminated packaging	Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

14. Transport information

DOT

UN number	Not Regulated.
UN proper shipping name	Not Regulated.
Transport hazard class(es)	
Class	Not available.
Packing group	Not available.
Environmental hazards	
Marine pollutant	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number	Not Regulated.
UN proper shipping name	Not Regulated.
Transport hazard class(es)	
Class	Not available.

Label(s)	Not available.
Packing group	Not available.
Environmental hazards	Not available.
ERG Code	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	Not Regulated.
UN proper shipping name	Not Regulated.
Transport hazard class(es)	
Class	Not available.
Label(s)	Not available.
Packing group	Not available.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Not available.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.

15. Regulatory information**United States**

US federal regulations This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None of the ingredients of this product are listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None of the ingredients of this product are listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

None of the ingredients of this product are listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard	-	No
	Delayed Hazard	-	No
	Fire Hazard	-	No
	Pressure Hazard	-	No
	Reactivity Hazard	-	No

SARA 302/304 Extremely hazardous substance

None of the ingredients of this product are listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

None of the ingredients of this product are listed.

Other federal regulations**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

None of the ingredients of this product are listed.

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)

None of the ingredients of this product are listed.

Safe Drinking Water Act (SDWA)

None of the ingredients of this product are listed.

US State regulations

US. Massachusetts Worker and Community Right-to-Know Act

None of the ingredients of this product are listed.

US. New Jersey Worker and Community Right-to-Know Act

None of the ingredients of this product are listed.

US. Pennsylvania Worker and Community Right-to-Know Law

None of the ingredients of this product are listed.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

None of the ingredients of this product are listed.

International Inventories

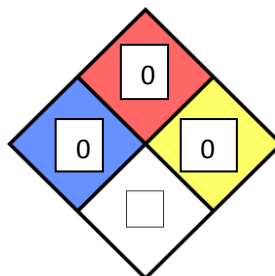
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non- Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemical List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control ACT (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information

Issue date 04/08/2013
Revision date 02/22/2017
Version # -
NFPA ratings



References

ACGIH: Documentation of the Threshold Limit Values and Biological Exposure indices
 ECHA: European Chemicals Agency
 HSDB: Hazardous Substances Data Bank

MYCOFOAM

GESTIS : Information system on hazardous substances of the German Social Accident Insurance
IARC: International Agency for Research on Cancer
NIOSH: The National Institute for Occupational Safety and Health
NTP: National Toxicology Program
NLM: Hazardous Substances Data Base
OECD : Organization for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration

Disclaimer

The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.