

SAFETY DATA SHEET

This safety data sheet conforms to ANSI Z400.5 and to the format requirements and the International Chemical Safety Cards of the Global Harmonizing System. This SDS complies with 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD.) Important: Read this SDS before handling and disposing of this product. Pass this information on to customers, employees and users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

PRODUCT IDENTITY: AB DRY/POWDERED PRODUCTS
PRODUCT USES: Microbial remediation of chemical and biological substances
COMPANY INFORMATION: Aster Bio, Inc
PO Box 27841
Houston, TX 77227
CONTACT PHONE: 1 (713)724-0082

SECTION 2. HAZARDS IDENTIFICATION

PICTOGRAM:



Exclamation

SIGNAL WORD:

Warning

HAZARD STATEMENTS:

- H316 Causes mild skin irritation (CAT:3)
- H317 May cause an allergic skin reaction (CAT:1B)
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

PRECAUTIONARY STATEMENTS:

- P102 Keep out of reach of children
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS#	Weight %
Rice Bran	NA	30 - 60%
Sodium Chloride	7647-14-5	10 - 90%
Reed Sedge Peat	NA	2 - 10%
Viable Bacterial Cultures	NA	<1%
Glycerol	56-81-5	<1%

Ingredients not precisely identified are proprietary and/or non-hazardous per 29 CFR 1910-1200 and/or represent less than 1%. All chemical ingredients appear on the EPA TSCA inventory.

SECTION 4. FIRST AID MEASURES

EYE CONTACT: Immediately flush with clear running water for 15 minutes. Get medical attention.
SKIN CONTACT: Rinse skin with clear water.
INHALATION: Avoid exposure to dusts and aerosols. If a dust or aerosol is formed, leave the area immediately and wait for dust or aerosol to settle or be removed before returning. Do not inhale dissolved product. If inhaled in any phase, see a doctor immediately.
SWALLOWING: Immediately drink large quantities of water. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION PREVENTIVE MEASURES: Product does not support combustion.
EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, water mist, or alcohol foam.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Wear gloves if disposal requires handling.
ENVIRONMENTAL PRECAUTIONS: None.
CONTAINMENT AND CLEAN-UP MEASURES: Dilute with water and flush to sanitary sewer.

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SDS DATE: 10/8/2018
ORIGINAL: 5/5/2015

SECTION 7. HANDLING AND STORAGE

HANDLING: Wear gloves when handling. Keep out of reach of children. Follow all special instructions on use.
STORAGE: Keep container closed when not in use. Do not freeze.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

COMPONENT	CAS#	TWA (OSHA)
Reed sedge peat	N/A	15mg/m ³

Remarks: Upper Respiratory Tract irritation. Not classifiable as a human carcinogen.

RESPIRATORY, VENTILATION, EYE, HAND & SKIN PROTECTION: Wear gloves and safety glasses with side-shields when handling.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: Tan/brown powder with black particles
pH: 7.0 ± 0.2 in a 10% solution
BOILING POINT: N/A
FLAMMABILITY: Will not support combustion
Bulk Density: 0.5 – 0.7 g/cm³

ODOR: Bran odor
FREEZING POINT: ~0°C
FLASH POINT: N/A
VAPOR PRESSURE: ND
SOLUBILITY IN WATER: Partial

SECTION 10. STABILITY & REACTIVITY

STABILITY: Stable.
MATERIALS TO AVOID: Oxidizers or strong acids may inactivate cultures.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides from burning.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE HAZARDS

EYE & SKIN CONTACT: May cause an allergic reaction especially in people with a history of allergic reaction. Possible eye irritant.
SWALLOWING: Possible gastric pain and vomiting if large quantities are ingested.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE, & OTHER CHRONIC HAZARDS: This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH.
PATHOGENICITY: Bacterial cultures are CDC Biosafety Level 1 (non-pathogenic).

MAMMALIAN TOXICITY INFORMATION

LD50 (Oral): ND

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: Minimal impact, as cultures naturally occur in soil and water.
MOBILITY: Disperses in water.
DEGRADABILITY: Biodegradable.
ACCUMULATION: None likely.

SECTION 13. DISPOSAL CONSIDERATIONS

All disposal must be in accordance with all federal, state and local regulations.

SECTION 14. TRANSPORT INFORMATION

This product is a non-hazardous solid for transport purposes.

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA TITLE III REPORTING REQUIREMENTS

SECTION 302, 304	Reporting not required.
SECTION 311, 312	Reporting not required for inventory above TPQ.
SECTION 313	Reporting may be required for users in manufacturing sector.

STATE REGULATIONS:

CALIFORNIA SAFE DRINKING WATER & TOXIC ENFORCEMENT ACT (PROPOSITION 65):

This product contains no chemicals known to the state of California to cause cancer or reproductive toxicity.

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SECTION 16. OTHER INFORMATION

HAZARD RATINGS (HMIS):

HEALTH: 1

REACTIVITY: 0

FLAMMABILITY: 0

PHYSICAL HAZARD: 0