

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Turbo-Seed
Product Code: 4008
Manufacturer information:
Company Name: Microbial Biological Fertilizer International, LLC
Address: 4006 South 40th Street, St. Joseph,
Missouri, 64503
Telephone: +1 (816) 236 4772
Email: steven@mbfi.bio
Emergency Phone Number: +1 (816) 752 0306

2. Hazards Identification

Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Label elements

Pictogram:



Hazard signal word: Warning

Hazard statements: H318: Causes serious eye damage
H350i: May cause cancer

Precautionary statements: P264+265: Wash hands thoroughly after handling. Do not touch eyes.
P280: Wear protective gloves, protective clothing, eye protection and face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. Composition / Information on Ingredients

Substances: N/A

Mixture:

Name	CAS No.	Weight (%)	Classification
Zinc sulfate monohydrate	7446-19-7	11,50	
Cobalt sulfate heptahydrate	10026-24-1	0,50	

4. First Aid Measures

Inhalation:	Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Call a poison control center or doctor for treatment advice.
Skin Contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Call a poison control center or doctor for treatment advice.
Eye Contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.
Ingestion:	Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Symptoms: May cause redness and tearing of eyes.

Indication of any immediate medical attention and special treatment needed

Note to physicians: Treat symptomatically.

5. Fire Fighting Measures

Suitable extinguishing media:

Dry chemical, CO₂, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog, or regular foam.

Unsuitable extinguishing media:

None.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products:

Carbon oxides.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers/tanks with water spray.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Avoid creating dust.

For emergency responders: Use personal protection recommended in Section 8. Ventilate the area.

Environmental precautions

Environmental precautions: Prevent entry into waterways, sewers, basements, or confined areas.

Methods and material for containment and cleaning up

Methods for containment:	Prevent dust cloud. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up:	Avoid creating dust. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Advice on safe handling:	Use personal protective equipment as required. Avoid contact with skin, eyes, or clothing. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Do not breathe fumes / mist / vapors / spray.
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Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep the container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from food, drink, and animal feed. Keep cool between 40-80°F (4-27°C). Protect from sunlight.
Packaging materials:	Do not reuse the container.
Incompatible materials:	All alkaline materials.

8. Exposure Controls / Personal Protection

Control parameters

The usual precautionary measures for handling chemicals should be observed. Provide adequate ventilation.

Appropriate engineering controls

Engineering controls ensure adequate ventilation, especially in confined areas. Showers, eyewash stations, and ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Tight sealing safety goggles.
Skin and body protection:	Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or boots.
Respiratory protection:	Ensure adequate ventilation, especially in confined areas.
General Hygiene considerations:	When using do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes, or clothing. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

9. Physical and Chemical Properties

Physical state:	Powder
Color:	Light blue with black specs
Odor:	Odorless
pH:	4.5 (at 20°C)
Dry matter:	Not applicable
Density:	Not applicable
Solubility:	Soluble
Solubility in organic solvents:	Not applicable
Partition coefficient:	Not applicable
Vapour pressure:	Not applicable
Boiling point:	Not applicable
Flash point:	Not flammable
Explosive properties:	Not explosive

10. Stability and Reactivity

Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	Very low or high temperatures and direct sunlight.
Incompatible materials	None identified.
Hazardous Decomposition Products	None identified.

11. Toxicological Information

LD ₅₀ :	Acute Oral LD ₅₀ (rat): 799 mg/kg Cat 4 (Calculated) Acute Dermal LD ₅₀ (rat): >5000 mg/kg Cat 5 (Calculated)
LC ₅₀ :	Inhalation LC ₅₀ (rat): 50.8 mg/L (4h) Cat 5 Dust (Calculated)
Acute Eye Irritation (Rabbit):	May cause serious eye damage.
Acute Dermal Irritation (Rabbit):	May cause skin irritation.
Local effects:	None.
Chronic toxicity:	Non-carcinogenic, non-teratogenic, non-mutagenic or reproductive, not harmful in laboratory animals.

12. Ecological Information

Fish toxicity:	Unknown – avoid contamination into water bodies.
Biodegradability:	Biodegradable.
Mobility:	Does not leach into groundwater.
Bioaccumulation:	None.

13. Disposal Considerations

Triple rinse the empty container as follows: Invert the empty container over the spray or mixing tank and shake all the formulation out. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler. Do not bury, burn, or donate the container to any other parties that may use it as a container for food or beverages.

14. Transport Information

UN number:	Not classified
UN Proper shipping name:	Not classified
Transport hazard class(es):	Not classified
Packing Group:	Not applicable

15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for the mixture

Authorizations:	Registered per state.
Restrictions on use:	Not relevant.

Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this SDS

16. Other Information

The purpose of the above information is to describe the product only in terms of health and safety requirements. The information given should not, therefore, be construed as guaranteeing specific properties or as a specification. Customers should satisfy themselves as to the suitability and completeness of such information for their own particular use.

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