Safety Data Sheet

PheNom® PheNom® ST

Revision Date: 5/9/2025

1. Identification

1.1. Product Identifier

Product form	Liquid
Product Name	PheNom

1.2 Identified Uses

Recommended Use	Seed or Soil Inoculant

1.3 Supplier of the SDS

Dakota Bio
102 East Bailie St
Kentland, In. 47951
Tel. 833-325-6822
Email info@dakotabio.com

2. Hazards Identification

2.1 Classification of the mixture	Not considered hazardous substance by GHS
2.2 Labeling Elements	Not applicable
2.3 Other hazards	None known
2.4 Unknown acute toxicity	None known

3. Composition on ingredients

3.1 Substance	Liquid Mixture

3.2 Mixture of ingredient

Mixture Active Ingredient	Patented Bacteria Blend

4. First Aid

Health Hazard rating 0

4.1 Description of First Aid

First Aid General	Rinse mouth, ingest water, rest.
First Aid Inhalation	Not harmful by inhalation. Breath fresh air, rest.
First Aid Skin Contact	Not harmful by contact. Wash exposed skin with soap and water.
First Aid Eye Contact	Not harmful, wash eyes for 15 minutes under running water with eyelids open.
First Aid ingestion	Not harmful to ingest. Rinse mouth, give water.

4.2 Symptoms and effects: acute and delayed

Symptoms	Acute: None, Delayed, None

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5. Firefighting Measures

5.1 Extinguishing Media

Flash Point	>100 C
Suitable extinguishing media	Foam, water spray, dry powder, carbon dioxide
Unsuitable extinguishing media	None

5.2 Special Hazards

Fire Hazard	Can be released in case of fire: carbon monoxide, carbon dioxide, nitrogen oxide.
Explosion Hazard	No explosion hazard.
Reactivity	Combustion products include: carbon monoxide, carbon dioxide, and nitrogen oxides. Avoid contamination with oxidizing agents, nitrates, oxidizing agents.

5.3 Advice for Firefighters

Firefighting instructions	Use water spray or fog for cooling containers. Dispose of fire debris and extinguishing water in accordance with local regulations.
Protective equipment for firefighters'	Full protective gear as in any fire

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 Non-emergency personnel

Emergency procedures	Stop source of leak or contamination, clean spill.

6.1.2 Emergency responders

Protective equipment	Equip cleanup crew with proper protection
Emergency procedure	Ventilate the area
6.2Environmental precautions	None

6.3 Methods and material for contaminant cleanup

Methods	Collect spillage, put in waste disposal. Store away from other chemicals, dispose according local regulation.
6.4 Reference to other sections	No additional information

7. Handling and Storage

7.1 Precautions for safe handling

Precautions	Store in closed container, keep away from ignition sources.
Hygiene measures	Handle with good industrial hygiene and safety practices. Wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions	Keep in original container, cool, well ventilated away from direct sunlight away from extreme high and low temperatures. Keep container closed when not in use. Do not freeze.
Incompatible materials	Oxidizing agents, nitrates, oxidizing agents, chlorine bleach.
Storage Temperature	4-20° C

7.3 Specific uses No additional information

8. Exposure controls/personal protection

8.1 Control parameters

No additional information available

8.2 Exposure controls

Appropriate engineering controls	Ensure adequate ventilation, emergency fountains, safety showers eye wash
Personal protective equipment	Avoid unnecessary exposure. Protective goggles, clothing and gloves.
Hand Protection	Protective gloves.
Eye Protection	Safety glasses with side shields or safety goggles or face shield.
Skin and body protection	Wear apron
Respiratory protection	Well fitted dust mask if not in well ventilated area.
Other information	Do not eat, drink, or smoke during use. Keep away from food, drink and animal feed.

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9. Physical and Chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Light Tan Liquid
Color	Light Tan
Odor	Mild
pH	6-7 @ 20 C
Relative evaporation rate	Not available
Melting point	0 C
Freezing point	-1 C
Boiling point	100 C
Flash point	Not available
Auto ignition temperature	Not applicable
Decomposition temperature	Not available
Flammability (solid, gas)	Not applicable
Vapor pressure	23.4 hPa @ 20 C
Relative Density	1.001 g/cm3 @ 20 C

10. Stability and reactivity

10.1 Reactivity	Stable, no known hazardous reactions
10.2 Chemical stability	Stable, when stored at ambient conditions
10.3 Possibility of hazardous reactions	None
10.4 Conditions to avoid	Ignition
10.5 Incompatible materials	Oxidizing agents, Combustible substances
10.6 Hazardous decomposition products	None

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity	None
Skin corrosion/irritation	None
Serious eye damage/irritation	Irritation
Respiratory or skin sensitization	None
Germ cell mutation	None
Carcinogenicity	None
Reproductive toxicity	None
Target organ toxicity (single exposure)	None
Target organ toxicity (repeat exposure)	None
Aspiration hazard	None
Symptoms/injuries after eye contact	May cause irritation

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12. Ecological information

12.1 Toxicity	No additional information available
Fish	No additional information available
Aquatic invertebrates	No additional information available
Aquatic plants	No additional information available
Bioaccumulation	None
Other effects	Do not discharge into environment without control

13. Disposal consideration

13.1 Waste treatment methods

Waste disposal recommendations	Dispose in safe manner in accordance with local regulations.
Containor disposal	Rinse container as needed.

14. Transport information

Land transport - DOT	Not classified as dangerous or hazardous
Sea transport - IMDG	Not classified as dangerous or hazardous
Air transport – IATA/ICAO	Not classified as dangerous or hazardous

15. Regulatory information

15.1 National regulations	This material is not considered hazardous

16. Other Information

NFPA health hazard	0 – Exposure could cause irritation
NFPA fire hazard	1 – Minimum fire hazard
NFPA reactivity	0 – Stable, even under fire conditions, not reactive with water.

Information and recommendations listed herein are presented in good faith and believed to be correct as of the date hereof. Dakota Bio or any of its subsidiaries makes no representations as to the completeness or accuracy thereof.