

Safety Data Sheet

Prepared to U.S. OSHA, CMA, ANSI and Canadian WHMIS Standards

Artemis ST: Mixture of non-hazardous beneficial endophytic microbes

Microbial species in Artemis ST
<i>Sphingobium yanoikuyae</i>
<i>Pseudomonas siliginis</i>
<i>Curtobacterium salicaceae</i>

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1. Product and Company Identification

Company

Intrinsyx Bio
1237 Midas Way
Sunnyvale, CA 94085
Email: regulatory@intrinsyx.com

Emergency Response Information

650-210-9219 during office business hours
Seek medical attention if any adverse health effects appear.

2. Hazards Identification

Emergency overview

KEEP OUT OF REACH OF CHILDREN.
Avoid contact with the skin, eyes and clothing.
Avoid inhalation of mists/vapors.
Wash thoroughly after handling.

State of matter: liquid
Color: beige
Odor: mild

Potential health effects

Acute toxicity:

Ingestion- no known toxicity.
Inhalation-no known toxicity.
Skin contact- Virtually nontoxic after a single skin contact.

Irritation / corrosion:

Contact- no known toxicity, low risk of irritation. If contact occurs use standard eye and skin flushing and seek medical advice if ingested or inhaled, and remove person to fresh air if inhaled

Sensitization:

There is no evidence of a skin-sensitizing potential.

Chronic toxicity: no known toxicity

Carcinogenicity: The product has not been tested. no known carcinogenicity based on individual components. The statement has been derived from the properties of the individual components.

Repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Reproductive toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity: The product has not been tested. The statement has been derived from the properties of the individual components

Genotoxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:
No significant reaction of the human body to the product known.

Potential environmental effects

Aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms.

Degradation / environmental fate:
The product has not been tested. The statement has been derived from the properties of the individual components.

Bioaccumulation / bioconcentration:
The product has not been tested.

3. Composition / Information on Ingredients

Product is GRAS Generally Regarded as Safe and not WHMIS controlled.

4. First-Aid Measures

General advice:
Remove contaminated clothing.

If inhaled:
Keep patient calm, remove to fresh air, seek medical attention.

If on skin:
Wash thoroughly with soap and water.

If in eyes:
Wash affected eyes for at least 15 minutes under running water with eyelids held open.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point: > 100 °C

Autoignition:

Based on the water content the product does not ignite.

Lower explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Upper explosion limit:

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Flammability: not applicable

Suitable extinguishing media:

water spray, dry powder, foam, carbon dioxide

Hazards during fire-fighting: carbon monoxide, carbon dioxide, nitrogen oxides

The substances/groups of substances mentioned can be released in case of fire.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Keep containers cool by spraying with water if exposed to fire. In case of fire and/or explosion do not breathe fumes. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Do not breathe vapor/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Cleanup:

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder).

For large amounts: Dike spillage. Pump off product.

7. Handling and Storage

Handling**General advice:**

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage**General advice:**

Refrigerate at 39-40 °F , Keep away from heat. Protect from direct sunlight.

Storage incompatibility:

General advice: Segregate from foods and animal feeds.

8. Exposure Controls and Personal Protection

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment**Respiratory protection:**

Wear respiratory protection if ventilation is inadequate. Wear a well fitted dust mask.

Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	liquid	
Odor:	mild	
Odor threshold:	No data available.	
Color:	beige	
pH value:	approx. 6 - 8	(20 °C)
Melting temperature:	approx. 0 °C	Information applies to the solvent.
boiling temperature:	approx. 100 °C	Information applies to the solvent.
Vapor pressure:	approx. 23.4 hPa	(20 °C) Information applies to the solvent.
Density:	approx. 1.001 g/cm ³	(20 °C)
Vapor density:		Heavier than air.
Partitioning coefficient noctanol/water (log Pow):		not applicable
Viscosity, kinematic:		Forms a viscous solution.
Solubility in water:		soluble

10. Stability and Reactivity**Conditions to avoid:**

See MSDS section 7 - Handling and storage.

Substances to avoid:

strong acids, strong bases, strong oxidizing agents

Hazardous reactions:

No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No decomposition if stored and handled as prescribed/indicated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

11. Toxicological information

Other Information:

Misuse maybe harmful to health.

12. Ecological Information

Fish

Acute:

No data available.

Aquatic invertebrates

Acute:

No data available.

Aquatic plants

Toxicity to aquatic plants:

No data available.

Bioaccumulation

Significant accumulation in organisms is not to be expected.

Other adverse effects:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

See product label for disposal and recycling instructions.

Container disposal:

Rinse the container or liner as needed for disposal. Add rinsate to spray tank. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Consult the product label for additional details.

14. Transport Information

Land transport
TDG

Not classified as a dangerous good under transport regulations

Sea transport
IMDG

Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Not Registered

WHMIS does not apply to this product.

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

Recommended use: Seed treatment

We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

SDS Prepared by:

Intrinsyx Bio
END OF DATA SHEET