



Safety Data Sheet for use in USA dated 04/17/2015

1. IDENTIFICATION OF THE PRODUCT AND OF THE COMPANY

Trade name: Bio-Tam 2.0
Trade code:
Product type and use: Biological mycofungicide
EPA Reg. No.: 80289-9
Company: ISAGRO USA- 430 Davis Dr., Suite 240, Morrisville NC 27560
Subsidiary of: Isagro S.p.A. – Via Caldera, 21 – 20153 Milano, Italy
Emergency telephone numbers:
Isagro USA (919) 321-5200 / CHEMTREC (800) 424-9300

2. COMPOSITION/INFORMATION ON ACTIVE INGREDIENTS

2% *Trichoderma asperellum* strain ICC 012
2% *Trichoderma gamsii* strain ICC 080

3. HAZARDS IDENTIFICATION

CAUTION

4. FIRST AID MEASURES

- If swallowed:**
- Call poison control center or doctor immediately for treatment advice.
 - Have person sip a glass of water if able to swallow.
 - Do not induce vomiting unless told to do so by the poison control center or doctor.
- If on skin or clothing:**
- Do not give anything by mouth to an unconscious person.
 - Take off contaminated clothing
 - Rinse skin immediately with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for further treatment advice.
- If inhaled:**
- Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- If in eyes:**
- Call a poison control center or doctor for further treatment advice.
 - Hold eye open and rinse slowly and gently with water for 15-20 minutes.
 - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
 - Call a poison control center or doctor for further treatment advice.
-

5. FIRE-FIGHTING MEASURES

Recommended extinguishers:
Water, CO2, Foam, Chemical powders, according to material involved in the fire.
Extinguishers not to be used:
None in particular.
Risks arising from combustion:
Avoid inhaling the fumes.
Protective equipment:
Wear breathing protection(respirator)and standard protection equipment according to the materials involved in the fire.

6. ACCIDENTAL RELEASE MEASURES

Measures for personal safety:

Use a respirator, chemical resistant gloves made of waterproof material, safety goggles or face shield, chemical-resistant boots, long sleeves shirt and pants. (see Section 8).

Environmental measures:

Do not allow material to enter sewers, surface and ground water or contaminate the ground. If contamination occurs notify the competent authorities.

Cleaning methods:

Rapidly recover the product and prevent it from entering into drainage systems, if possible. In so doing wear protective clothing (see Section 8). After the product has been recovered, rinse the area and contaminated materials involved with detergent and water. Dispose unrecoverable product, rinsate, or rinsate solids on site or at an approved disposal facility (see Section 13).

7. HANDLING AND STORAGE

Handling precautions:

Avoid contact with skin, eyes or clothing (see Section 8).

Do not eat, drink or smoke while working.

Incompatible materials:

Store away from alkali material.

Storage conditions:

Store in a cool, dry place. Containers should not be exposed to direct sunlight and must be kept unopened and undamaged.

Instructions regarding storage premises:

Adequately ventilated premises at temperatures <40°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Precautionary measures:

Give adequate ventilation to the premises where the product is stored and/or handled.

Respiratory protection

Use NIOSH approved respirator.

Protection for eyes

Use safety goggles or face shield.

Protection for hands:

Use chemical resistant gloves made of waterproof material.

Protection for skin:

Use coveralls (long sleeve shirt and pants) and shoes plus socks or chemical-resistant boots.

Exposure limit(s)

ACGIH TLV: NDA

OSHA PEL: NDA

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Solid powder, Off-white

Odor: Slight odor

pH: 4.38

Flammability properties: Not flammable

Explosive properties: Not explosive

Autoignition temperature: NDA

Tap density(g/ml): 0.78

Solubility: 29 mg/ml(water)

10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid high temperatures (> 40°C) and moisture.

Substances to avoid:

Alkali material.

Hazardous decomposition products:

None.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50 (oral): >2000 mg/kg (rat)
LD50 (dermal): > 2000 mg/kg (rat)
LC50 (4h) (inhalation): >5.20 mg/L (rat)
Irritation:
Skin: not irritant
Eye: not irritant

Sensitization:

Not a sensitizer agent

Carcinogenic effects:

No carcinogenic effects.

Mutagenic effects:

No mutagenic effects.

Teratogenic effects:

No teratogenic effects.

12. ECOLOGICAL INFORMATION

Persistence/degradability: not persistent

Ecotoxicity:

Daphnia magna EC50(48h) >100 mg/L
ED100(48h) >100 mg/L

Effect on non target organisms: No adverse effects reported

13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send non-recoverable product, rinsate or rinsate solids to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

DOT-UN number: NA
DOT-Class: NA
DOT-Shipping name: NA(product not regulated)
DOT-Label/Placard: NA
DOT-Packing Group: NA
DOT-Marine pollutant: No

ADR/RID-UN number: NA
ADR/RID-Class: NA
ADR/RID-Shipping Name: NA(product not regulated)
ADR/RID-Label/Placard: NA
ADR/RID-Packing Group: NA
ARD/RID-Marine pollutant: No

IMDG-UN number: NA
IMDG-Class: NA
IMDG-Shipping name: NA(product not regulated)
IMDG-Label/Placard: NA
IMDG-Packing group: NA
IMDG-Marine pollutant: No

15. REGULATORY INFORMATION

USEPA Registration Number 80289-9

16. OTHER INFORMATION

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended. This MSDS cancels and replaces any preceding release.