



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Identification of the substance or preparation:
MYCOSTAR® WP

1.2 Use of the substance / preparation
Biological nematicide

1.3. Company / undertaking identification:
LAVERLAM INTERNATIONAL CORPORATION
117 South Parkmont
Butte, Montana 59701
United States
Tel: +1 406 782 2386
Fax: +1 406 782 9912
e-mail: info@laverlamintl.com

1.4. Emergency telephone
+1 406 782 2386

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Product definition : UVCB
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Resp. sens., 1, H334; Skin sens., 1, H317

Classification according to Directive 67/548/EEC [DSD]

Xn; R42/R43

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms:



Signal word: **Warning**

Hazard statements: H334 May cause sensitization by inhalation.

H317 May cause sensitization by skin contact.

Precautionary Statements

Prevention: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

Response: P302+352: IF ON SKIN: Wash with plenty of soap and water.
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.



Storage: P411 Store at temperatures not exceeding 30°C/86°F.
Disposal: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements: Not applicable.

2.3 Other hazards

PHYSICAL HAZARDS:

Not classified as a physical hazard under GHS criteria.

ENVIRONMENTAL HAZARDS:

Not classified as an environmental hazard under GHS criteria.

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII: No
PBT: Specified

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: No
vPvB: Specified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description: Mixture of substances

Components:

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Product/ingredient name	Identifiers	%w/w	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Trichoderma viride strain T1111 TGAI	NA	4	Xn; R42/R43	Resp. sens., 1, H334 Skin sens., 1, H317	1

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of modifications on the skin (stinging, redness, rashes, blisters, ...), seek medical advice with this Security Data Sheet

By eye contact:

Rinse eyes thoroughly with luke warm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

By consumption:

In case of consumption, seek immediate medical assistance showing the MSDS of this product.



4.2 Most important symptoms and effects, both acute and delayed:

No symptoms or delayed effects.

4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

5. FIRE – FIGHTING MEASURES

5.1 Extinguishing media:

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive subproducts are created (CO₂, CO, NO_x,...) that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate leaks provided that there is no additional risk for the people performing this task. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Evacuate the area and keep out those who do not have

6.2 Environmental precautions:

Product not classified as dangerous for the environment, however it is necessary to avoid spillage as the product is classified as dangerous for health and/or its physicochemical properties. protection.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- Precautions for safe manipulation



Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See epigraph 6.3).

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 35 °F

Maximum Temp.: 65 °F

Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the work environment

There are no environmental limits for the substances contained in the product.

DNEL (Workers):

Non-applicable

DNEL (Population):

Non-applicable

PNEC:



Non-applicable

8.2. Exposure controls



A.- General security and hygiene measures in the work place.

In accordance with the order of importance to control professional exposure (Directive 98/24/EC) it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the professional exposure limits. In case of using individual protection equipment they should have the "CE marking" in accordance with Directive 89/686/EC. For more information on individual protection equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For additional information see epigraph 7.1



B.- Respiratory protection.

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	-Filter mask for gases, vapours and particles -Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least R-95 or P-95.		EN 149:2001+A1:2009 EN 405:2001+A1:2009	Replace when an increase in resistance to breathing is observed and/or a smell or taste of the contaminant is detected.



C.- Specific protection for the hands.

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	-Protective gloves against minor risks -Chemical-resistant gloves such as nitrile rubber or butyl rubber			Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420 and EN 374.



D.- Ocular and facial protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	-Panoramic glasses against liquid splash -Protective eyewear (goggles, face shield, or shielded safety glasses)		EN 166:2001 EN ISO 4007:2012	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

E.- Bodily protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
	-Work clothing -Long-sleeved shirt and long pants			For professional use only.
	-Anti-slip work shoes -Shoes plus socks		EN ISO 20347:2012	None

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see epigraph 7.1.D.

Volatile organic compounds:

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply): 0 % weight

V.O.C. density at 20 °C: 0 kg/m³ (0 g/L)

Average carbon number: Non-applicable

Average molecular weight: Non-applicable



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 °C: Powder

Appearance: Powder

Color: Greenish

Odor: Dusty

Volatility:

Boiling point at atmospheric pressure: 260 °C

Vapour pressure at 20 °C: Non-applicable *

Vapour pressure at 50 °C: Non-applicable *

Evaporation rate at 20 °C: Non-applicable *

Product description:

Density at 20 °C: 0,88 g/cc*

Relative density at 20 °C: Non-applicable *

Dynamic viscosity at 20 °C: Non-applicable *

Kinematic viscosity at 20 °C: Non-applicable *

Kinematic viscosity at 40 °C: Non-applicable *

Concentration: Non-applicable *

pH at 20°C: 8.7

Vapour density at 20 °C: Non-applicable *

Partition coefficient n-octanol/water 20 °C: Non-applicable *

Solubility in water at 20 °C: Non-applicable *

Solubility property: Non-applicable *

Decomposition temperature: Non-applicable *

Flammability:

Flash Point: 182 °C

Autoignition temperature: 260 °C

Lower flammability limit: 0.9%

Upper flammability limit: 7%

9.2 Other information:

Surface tension at 20 °C: Non-applicable *

Refraction index: Non-applicable *



*Not relevant due to the nature of the product, not providing information property of its hazards.

10. STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

10.2 Chemical stability:

Chemically stable under the conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the conditions no hazardous reactions are expected to produce a pressure or excessive temperatures.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

10.6 Hazardous decomposition products:

See epigraph 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

11. TOXICOLOGICAL INFORMATION

11.1 Risks

This product is classified as harmful (Xn)

11.2 Acute toxicity

- Acute Oral DL₅₀ (Rats): >5000 mg/kg bw
- Acute Dermal DL₅₀ (Rabbits): Active substance >1.0x10¹¹ CFU/animal (rabbits)
- Acute Inhalation Toxicity CL₅₀ (Rat): Active substance >1.0x10⁸ CFU/animal (rat)
- Skin irritation: Non irritant
- Eye irritation: Non irritant

11.3 Chronic toxicity

- Carcinogenicity: Unnecessary
- Reproductive toxicity: Unnecessary
- Teratogenic effects: Unnecessary
- Mutagenic effect: No mutagen

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

This product is not classified as dangerous for environment

Avian toxicity:	Not determined	
Effects on fish:	Active ingredient:	EC ₅₀ > 10 ⁹ CFU/L (<i>Danio rerio</i>)
Effects on Daphnia:	Active ingredient:	EC ₅₀ >10 ⁹ CFU/L

12.2. Mobility



Conidia of *Trichoderma viridestrain* T1111 (active ingredient) are not very mobile in soil. The movement of conidia vertically, through the soil profile, is positively correlated with high infiltration rates in soil.

12.3. Persistence and degradability

This product has low persistence and their components are easily bio-degraded. *Trichoderma viride* is a natural soil inhabitant.

12.4. Bioaccumulative potential

This product contains biodegradable molecules and spores of a natural occurring soil microorganism. There is not bioaccumulative potential.

12.5. Results of PBT¹ assessment

This product does not contains any compound with bioaccumulative or toxic potential

12.6. Other adverse effects

None

1. PBT: persistent, bioaccumulative and toxic substance

13. DISPOSAL CONSIDERATIONS

Waste residues in accordance with federal, state and local disposal or discharge regulations
Since empty packaging contains residues of the product, all labelled hazard precaution should be observed.

Container disposal:

Empty containers should triple rinsed (or equivalent), discharging water into application equipment. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities by burning. If burned, stay out of smokes.

14. TRANSPORT INFORMATION

14.1 Special precautions:

This product is stable at room temperature during transportation. This product should be transported in tightly closed and labeled containers

14.2 Road Transport

- ADR Class:	No ADR
- Labels:	NA
- UN Number:	NA
- IP Number:	NA
- Packaging Group:	NA
- Limited quantities:	NA
- Category:	NA
- Technical name:	NA

14.3 Maritime Transportation (IMDG)

- Class IMO / IMDG:	No IMDG
- Labels:	NA
- ONU Number:	NA
- Packaging group:	NA
- Technical name:	NA



14.4 Aerial transportation (IATA)

- Class ICAO / IATA: **No IATA**
- Labels: NA
- Secondary risk: NA
- ONU Number: NA
- Packaging number: NA
- Technical name: NA

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable

Other EU regulations

National Inventory List:

United States inventory (TSCA 8b): This material is listed or exempted.
Canadian DSL (Domestic Substance List): This material is listed or exempted.
EINECS (European Inventory of Existing Commercial Substances): This material is listed or exempted.
AICS (Australian Inventory of Chemical Substances): This material is listed or exempted.

Black List Chemicals : Not listed

Priority List Chemicals : Not listed

Integrated pollution prevention and control list (IPPC) - Air : Not listed

Integrated pollution prevention and control list (IPPC) - Water : Not listed

International regulations

Chemical Weapons Convention List Schedule I Chemicals : Not listed

Chemical Weapons Convention List Schedule II Chemicals : Not listed

Chemical Weapons Convention List Schedule III Chemicals : Not listed

16. OTHER INFORMATION



Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006

Modifications related to the previous security card which concerns the ways of managing risks. :

Non-applicable

Text of R-phrases considered in section 3:**Directive 67/548/EC and Directive 1999/45/EC:**

R42/43: May cause sensitisation by inhalation and skin contact

CLP Regulation (EC) n° 1272/2008:

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Legislation Consulted

- National Regulation 255/2003 on classification, packaging and labeling of dangerous preparations
- Directive 88/379/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous preparations
- Council Directive 91/156/EEC amending directive 75/442/EEC on waste
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council
- Directive 67/548/EEC [DSD]
- Regulation (EC) No. 1272/2008 [CLP/GHS]

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