

MATERIAL SAFETY DATA SHEET

NATURALIS-L

Rev. 01 Printing date 05.11.2009

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

<i>Identification of the substance or preparation</i>	NATURALIS-L
<i>Product code</i>	Not applicable.
<i>Formula</i>	Not applicable.
<i>Use of the substance/preparation</i>	Insecticide based on <i>Beauveria bassiana</i> , strain ATCC 74040.
<i>Company/undertaking identification</i>	
<i>Manufacturer</i>	Intrachem Production S.r.l. Via XXV Aprile, 4/A 24050 Grassobbio (BG) Italy
<i>Distributor</i>	Belchim Crop Protection Limited 1b Fenice Court, Phoenix Park Eaton Socon, St.Neots Cambridgeshire PE19 8EP - UK
<i>Competent person responsible for the Safety Data Sheet</i>	Mr. Francesco Greco Via XXV Aprile, 4/A 24050 Grassobbio (BG) Italy Tel.: +39 - 035-335313 Fax: +39 - 035-335334 E-mail: francesco.greco@intrachem.it
<i>Emergency telephone</i>	Tel.: +39 - 035-335313 Fax: +39 - 035-335334 Tel.: +39 - 02-66101029 (Centro Antiveleni Milano).

2. HAZARDS IDENTIFICATION

<i>Potential Health Effects</i>	
<i>Route(s) of entry</i>	Inhalation, broken skin, eye.
<i>Human effects and symptoms of over-exposure</i>	Exposure may result in eye, skin and respiratory tract irritation.
<i>Acute eye contact</i>	May be moderately irritating.
<i>Chronic eye contact</i>	Chronic exposure not likely from normal use.
<i>Chronic ingestion</i>	Chronic exposure not likely from normal use.
<i>Chronic inhalation</i>	Chronic exposure not likely from normal use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS-No.</u>	<u>EINECS-No.</u>
<i>Beauveria bassiana</i> strain ATCC 74040	68428-82-0	-

<u>Chemical composition</u>	<u>% w/w</u>	<u>TLV (Units)</u>
<i>Beauveria bassiana</i>	7.16	-
Inert	Up to 100	-

Potency

Min. 2.3×10^7 viable spores/ml.

4. FIRST AID MEASURES

First aid for eyes Immediately flush with water for at least five minutes. Get medical attention if irritation persists.

First aid for skin In case of contact with skin, wash off immediately with soap and water.

First aid for inhalation Remove individual to fresh air.

First aid for ingestion Drink 1 or 2 glasses of water and induce vomiting. Contact physician or poison Control Center.

Notes If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow any advice given.

5. FIRE-FIGHTING MEASURES

Extinguishing media Water, CO₂, dry chemical, foam.

Unusual fire and explosion hazards None.

Special fire fighting procedures None.

6. ACCIDENTAL RELEASE MEASURES

If accidentally spilled, isolate the spill area and restrict entry to the area by non-essential personnel. Wearing appropriate protective equipment, sweep the spilled material into a properly labelled container. Wash the contaminated surface with water and flush residual material into sewer system.. Do not wash residue into surface water system (i.e. lake, river, stream). Dispose of the container according to directions on product label.

7. HANDLING AND STORAGE

<i>Storage temperature</i>	The product has got a guaranteed shelf-life of 1 year at room temperature. Protect from direct sunlight. Store in a cool, dry location away from food. The product preferably should be stored at 4-5 °C to retain maximum spore viability.
<i>Special sensitivity</i>	Keep out from freezing.
<i>Handling and storage precautions</i>	Tightly reclude containers of unused material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Eye protection requirements</i>	Use goggles. Avoid contact with eyes.
<i>Skin protection requirements</i>	Use gloves. Avoid contact with open wounds.
<i>Respiratory/ventilation requirements</i>	Use under ventilated conditions.
<i>Hygienic practices</i>	Wash thoroughly after exposure. Remove contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Aspect</i>	Liquid.
<i>Colour</i>	Yellowish brown.
<i>Odour</i>	Characteristic.
<i>pH (1 %)</i>	6.25.
<i>Apparent density</i>	0.97 g/ml.
<i>Solubility in water</i>	Soluble.
<i>Melting point/ interval</i>	Not required.
<i>Boiling point</i>	Not available.
<i>Oxidising properties</i>	Not available.
<i>Self inflammability</i>	405 ± 5 °C.
<i>Flash point</i>	> 180 °C.
<i>Ignition</i>	Not available.
<i>Vapour pressure (Air = 1)</i>	Not available.
<i>Viscosity</i>	482.97 cPs.

10. STABILITY AND REACTIVITY

This product is stable under normal conditions of use.

<i>Stability</i>	Stable.
<i>Hazardous polymerization</i>	None
<i>Incompatibilities</i>	Unknown.
<i>Decomposition products</i>	None.
<i>Conditions to avoid</i>	Unknown.

11. TOXICOLOGICAL INFORMATION

Avoid contact with skin, eye and clothing. In case of eye contact, hold eyes 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 poison Control Center or doctor for treatment advice. If on skin, wash with soap and water after handling.

12. ECOLOGICAL INFORMATION

General notes Do not allow product to reach round water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Do not attempt to clean or reuse containers. Dispose of empty container in sanitary land fill or if allowed by state and local authorities, by burning. Do not stand in smoke. Unused material should be disposed of in an approved waste facility following all applicable state and local regulations.

14. TRANSPORT INFORMATION

UN No. Non classified.

Sea (IMDG Code) Non classified.

Road/Rail (RID/ADR) Non classified.

Air (ICAO/IATA) Non classified.

15. REGULATORY INFORMATION

The product has been classified and marked in accordance with EU Directives/Ordinances on Hazardous Materials.

Code letter and designation of product:

Xn - Harmful

16. OTHER INFORMATION

Risk phrases:

R 42 - May cause sensitisation by skin contact.

R 43 - May cause sensitisation by inhalation.

Safety phrases:

S 23 - Do not breathe spray.

S 24 - Avoid contact with skin.

S 37 - Wear suitable gloves.

S 45 - In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

S 51 - Use only in a well ventilated area.

The information in this security information sheet corresponds to the current situation of our knowledge, but we do not assume any responsibility for it.

The users must consider this information only as a complement to other information obtained by themselves and must carry out independent tests of suitability and completeness of the information in order to ensure the proper use and the elimination of these materials, as well as the security and health of employees, customers, and protection of the environment.