

## Safety Data Sheet

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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product identifiers

Product Name: Spinosad

CAS No.: 168316-95-8

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, Manufacture of substances. For scientific research and development only. Not for use in humans or animals.

#### 1.3 Details of the supplier of the safety data sheet

Brand: MuseChem

Company: ArrakisTek Inc.

#### 1.4 Emergency telephone number

Telephone: +1-862-686-3898

Fax: +1-323-978-5598

E-mail address: [info@musechem.com](mailto:info@musechem.com)

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### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, short-term (Acute) - Category Acute 1

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 1

#### 2.2 GHS Label elements, including precautionary statements



Pictogram(s)

Signal word    Warning

Hazard statement(s)    H410 Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

Prevention    P273 Avoid release to the environment.

Response    P391 Collect spillage.

Storage    none

Disposal    P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

#### 2.3 Other hazards which do not result in classification

No data available

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Chemical Name: Spinosad

Common names and synonyms: Spinosad

CAS number: 168316-95-8

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#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

###### **If inhaled**

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

###### **Following skin contact**

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

###### **Following eye contact**

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

###### **Following ingestion**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

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

No data available

##### 4.3 Indication of any immediate medical attention and special treatment needed, if necessary

No data available

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#### 5. FIRE-FIGHTING MEASURES

##### 5.1 Extinguishing media

###### **Suitable extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

##### 5.2 Special hazards arising from the chemical

Combustible. Gives off irritating or toxic fumes (or gases) in a fire.

##### 5.3 Special protective actions for fire-fighters

Use water spray, powder, foam, carbon dioxide.

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#### 6. ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal precautions, protective equipment and emergency procedures

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Do NOT let this chemical enter the environment. Sweep spilled substance into covered containers.

##### 6.2 Environmental precautions

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains.

Discharge into the environment must be avoided.

##### 6.3 Methods and materials for containment and cleaning up

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### 7.2 Conditions for safe storage, including any incompatibilities

Separated from food and feedstuffs.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure limit values

No data available

#### Biological limit values

No data available

### 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear safety spectacles.

#### Skin protection

Protective gloves.

#### Respiratory protection

Avoid inhalation of dust.

#### Thermal hazards

No data available

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

- |   |                                  |
|---|----------------------------------|
| a) Physical state   | Solid. Powder.                   |
| b) Colour   | No data available                |
| c) Odour  | No data available                |
| d) Melting point/freezing point                             | 84 - 99.5 °C.                    |
| e) Boiling point or initial boiling point and boiling range | > 172 °C. Atm. press.:101.3 kPa. |
| f) Flammability   | No data available                |
| g) Lower and upper explosion                                | No data available                |

limit / flammability limit

h) Flash point	No data available
i) Auto-ignition temperature	> 400 °C.
j) Decomposition temperature	No data available
k) PH	No data available
l) Kinematic viscosity	No data available
m) Solubility	In water: 89.4 mg/L. Temperature:25 °C.
n) Partition coefficient n-octanol/water	log Pow = 3.91. Temperature:23 °C.
o) Vapour pressure	< 0 Pa. Temperature:25 °C.
p) Density and/or relative density	0.52. Temperature:20 °C.
q) Relative vapour density	No data available
r) Particle characteristics	No data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

No data available

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

No data available

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Oral: LD50 - (male/female) - > 5 000 mg/kg bw.

Inhalation: LC50 - (male/female) - > 5.18 mg/L air.

Dermal: LD50 - (male/female) - > 5 000 mg/kg bw.

#### Skin corrosion/irritation

No data available

#### Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitisation

No data available

#### Germ cell mutagenicity

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

The substance is mildly irritating to the eyes.

**Specific target organ toxicity - repeated exposure**

The substance may have effects on the kidneys and liver. This may result in tissue lesions.

**Aspiration hazard**

Evaporation at 20°C is negligible; a nuisance-causing concentration of airborne particles can, however, be reached quickly on spraying or when dispersed, especially if powdered.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish: LC50 - *Oncorhynchus mykiss* (previous name: *Salmo gairdneri*) - 30 mg/L - 96 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - other aquatic crustacea: - 1.478 mg/L - 48 h.

Toxicity to algae: no data available

Toxicity to microorganisms: IC50 - > 100 mg/L - 3 h.

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

### 13.1 Disposal methods

**Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

**Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning.

Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

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## 14. TRANSPORT INFORMATION

### 14.1 UN Number

ADR/RID: UN3077 (For reference only, please check.)

IMDG: UN3077 (For reference only, please check.)

IATA: UN3077 (For reference only, please check.)

#### 14.2 UN Proper Shipping Name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (For reference only, please check.)

#### 14.3 Transport hazard class(es)

ADR/RID: 9    IMDG: 9    IATA: 9

#### 14.4 Packing group, if applicable

ADR/RID: III    IMDG: III    IATA: III

#### 14.5 Environmental hazards

ADR/RID: Yes    IMDG: Yes    IATA: Yes

#### 14.6 Special precautions for user

No data available

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

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### 15. REGULATORY INFORMATION

Chemical name	Common names and synonyms	CAS number	EC number
Spinosad	Spinosad	168316-95-8	-
European Inventory of Existing Commercial Chemical Substances (EINECS)			Not Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed.
Korea Existing Chemicals List (KECL)			Not Listed.

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### 16. OTHER INFORMATION

#### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is



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applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. MuseChem and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.