

**SAFETY DATA SHEET (SDS)**

TITLE: SPINOSAD 480 SC

**1.0 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING****1.1 Product Identifier**

Product Name : AG SPINOSAD 480 SC  
Common Name : Spinosad 480 g/l SC  
CAS No. : 168316-95-8  
EC No. : N/A  
Index Number : N/A  
REACH registration No. : N/A

**1.2 Relevant identified uses of the substance and uses advised against:**

Insecticide

**1.3 Details of the Manufacturer / Supplier of the safety data sheet:**

Supplier AGROMECC SARR  
P.O.Box: 462  
Jounieh, Lebanon  
Tel +961 9 226874  
E-mail agromec@agromec-international.com  
Webpage www.agromec-international.com

**1.4 Emergency Phone Number (24 hours)**

+961 3 980599

**2.0 HAZARDS IDENTIFICATION****2.1 Classification of the mixture:****2.1.1 Classification:**

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008 (CLP).

**1272/2008/EU**

Pictograms / Signal word code (s)

Hazard Statement Code (s)

No significant immediate hazards for emergency response are known	H320 P102, P402, P262
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For full text of H-phrases: see section 2.2.1

67/548/EEC (DSD)		
Classification and Indication of Danger (s)	R-Phrases	S-Phrases
No significant immediate hazards for emergency response are known	R: 36	S: 2-8-25

For full text of R-phrases and S-phrases: see section 2.2.2

## 2.2 Label elements

### 2.2.1 According to 1272/2008/EU REGULATION

Pictograms / Signal word code (s) N/A

Hazard Statement code (s)

H320 : May cause slight transient (temporary) eye irritation.

Precautionary statement(s)

P102 : Keep out of reach of children

P402 : Store in a dry place.

P262 : Do not get in eyes, on skin, or on clothing.

### 2.2.2 According to 67/548/EEC REGULATION

Indication (s) of Danger : N/A

Risk phrases

R 36 : May cause irritation to eyes (slight and temporary)

Safety phrases

S 2 : Keep out of the reach of children

S 8 : Keep container dry

S 25 : Avoid contact with eyes

## 2.3 Other hazards

Specific concentration Limits and M factors: M=10

### 3.0 COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name / CAS No	% w/v	Risk and Safety Phrases (67/548/EEC)	Hazard Symbols (67/548/EEC)	Hazard Pictograms (1272/2008/EC)	Hazard Statements (1272/2008/EC)
Spinosyn A/131929-60-7 Spinosyn D/131929-63-0	48.0	R: 50/53 S: 60- 61	N	GHS09 Wng	H400, H410
Inert Ingredients	Up to 100%	-	-	-	-

### 4.0 FIRST AID MEASURES

#### 4.1 Description of first aid measures

##### 4.1.1 General information

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

##### 4.1.2 In case of inhalation

Remove to fresh air if effects occur. Consult a physician

##### 4.1.3 In case of skin contact

Wash off in flowing water or shower

##### 4.1.4 In case of eyes contact

Flush eyes with plenty of water.

##### 4.1.5 In case of ingestion

If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

##### 4.1.6 Notes for the doctor

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

### 5.0 FIRE – FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media : Water, fog, foam, CO<sub>2</sub>

Unsuitable extinguishing media : N/A

#### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : Toxic and irritating gases will be formed if product is involved in fire.

### 5.3 Advice for fire-fighters

Wear positive-pressure, self-contained breathing apparatus and full protective clothing.

### 5.4 Additional information

N/A

## 6.0 ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1 For non-emergency personnel

Protective equipment : Wear appropriate safety clothing and eye/face protection.

Emergency procedures : N/A

#### 6.1.2 For emergency responders

Personal protective equipments : Wear appropriate safety clothing and eye/face protection

### 6.2 Environmental precautions

N/A

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

#### 6.3.1 For containment

N/A

#### 6.3.2 For cleaning up

Sweep up small spills and place in a suitable container for disposal.

#### 6.3.3 Other information

Not available

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

## 7.0 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### 7.1.1 Protective measures

Fire preventions : See section 5.3

Aerosol and dust generation preventions : See section 6.1.

Environmental precautions : See section 6.2.

### 7.1.2 Advice on general occupational by hygiene

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work. Avoid contact with eyes, clothing and skin.

## 7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions : Store in original container in a dry area.

Packaging materials : Store in the original container only.

Requirements for storage rooms and vessels : Store in a dry area.

Hints on storage assembly : N/A

Further information on storage conditions : Keep out of reach of children.

## 7.3 Specific and use(s)

Recommendations : Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Industrial sector specific solutions : N/A

## 8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational exposure limits

N/A

8.1.2 Additional exposure limits under the conditions of use: Not available

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

#### 8.2.2 Personal protection equipment

Applicators and all other handlers: Please refer to the product label for personal protective clothing and equipment.

### 8.2.3 Eye / Face protection

Use safety glasses

### 8.2.4 Skin Protection

No precautions other than clean body covering clothing should be needed.

### 8.2.5 Respiratory protection

In dusty atmospheres, use a NIOSH approved dust respirator.

## 9.0 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Odour	:	None
Odour threshold	:	N/A
Vapour pressure ( $^{\circ}\text{C}$ )	:	Extremely low

### 9.2 Other information

Fat solubility (solvent-oil to be specified) etc	:	N/A
Dissociation constant in water (pKa)	:	N/A
Oxidation-reduction Potential	:	N/A

## 10.0 STABILITY AND RELIABILITY

### 10.1 Reactivity

Not available

### 10.2 Chemical stability

Product is stable under normal storage conditions

### 10.3 Possibility of hazardous reactions

Hazardous Polymerization is not known to occur.

### 10.4 Conditions to avoid

If product is involved in fire, carbon monoxide and carbon dioxide, the normal products of combustion, will be formed, along with unidentified organic compounds.

### 10.5 Incompatible materials

None known

## 10.6 Hazardous decomposition products

If product is involved in fire, carbon monoxide and carbon dioxide, the normal products of combustion, will be formed, along with unidentified organic compounds.

## 11.0 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects ( The following data pertains to studies conducted with the technical material)

<b>Ingestion</b>	: Oral LD <sub>50</sub> for rats is >7500mg/kg (males) and >5000mg/kg (females).  Oral LD <sub>50</sub> for mice is >6000 mg/kg (males) and >5000mg/kg (females).
<b>Skin contact</b>	: LD <sub>50</sub> for skin absorption in rabbits is >5000mg/kg Essentially non-irritating to skin.  Did not cause allergic skin reactions when tested in guinea pigs.
<b>Sensitisation</b>	: N/A
<b>Eye Contact</b>	: May cause slight transient (temporary) eye irritation.
<b>Inhalation</b>	: LC <sub>50</sub> for rats is >5,18mg/L for 4hours. Single exposure to dust is not likely to be hazardous
<b>Other information</b>	: N/A
<b>Germ cell mutagenicity</b>	: In-vitro and animal mutagenicity studies were negative
<b>Carcinogenicity</b>	: Did not cause cancer in laboratory animals.
<b>Reproductive toxicity</b>	: In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals
<b>STOT- single exposure</b>	: Not available
<b>STOT- repeated exposure</b>	: Not available
<b>Aspiration hazard</b>	: Not available

## 12.0 ECOLOGICAL INFORMATION

### 12.1 Toxicity (The following data pertains to studies conducted with the technical material)

#### 12.1.1 Aquatic Toxicity

Toxic to marine mollusks, fish, and aquatic invertebrates. Material is highly toxic in marine mollusks on an acute basis (LC<sub>50</sub>/EC<sub>50</sub> is between 0.1 and 1.0 mg/L in most sensitive species). Acute EC<sub>50</sub> for shell deposition inhibition in eastern oyster (*Crassostrea virginica*) is 0.295 mg/L.

Material is moderately toxic to fish on an acute basis (LC<sub>50</sub> is between 1 and 10 mg/L). Acute LC<sub>50</sub> in common carp (*Cyprinus carpio*) is 3.49-4.99 mg/L.

Acute LC<sub>50</sub> in bluegill (*Lepomis macrochirus*) is 5.94 mg/L. Acute LC<sub>50</sub> in sheepshead minnow (*Cyprinodon variegatus*) is 7.87 mg/L.

Material is slightly toxic to fish on an acute basis (LC<sub>50</sub> is between 10 and 100 mg/L).

Acute LC<sub>50</sub> in rainbow trout (*Oncorhynchus mykiss*) is 30 mg/L.

Material is slightly toxic to aquatic invertebrates on an acute basis (LC<sub>50</sub>/EC<sub>50</sub> is between 10 and 100 mg/L).

Acute LC<sub>50</sub> in water flea (*Daphnia magna*) is 92.7 mg/L.

Acute immobilization EC<sub>50</sub> in water flea (*Daphnia magna*) is 14mg/L.

Acute LC<sub>50</sub> in grass shrimp (*Palaemonetes pugio*) is >9.76 mg/L.

Growth inhibition EC<sub>50</sub> in marine diatom (*Skeletonema costatum*) is 0.227 mg/L.

Growth inhibition EC<sub>50</sub> in blue-green alga (*Anabaena flosaquae*) is 8.09 mg/L.

Growth inhibition EC<sub>50</sub> in diatom (*Navicula* sp.) is 0.107 mg/L.

### 12.1.2 Avian Toxicity

Material is practically non-toxic to birds on an acute basis (LD<sub>50</sub> is >2000 mg/kg).

Material is practically non-toxic to birds on a dietary basis (LC<sub>50</sub> is >5000ppm).

Acute oral LD<sub>50</sub> in bobwhite (*Colinus virginianus*) is >2000 mg/kg.

Acute oral LD<sub>50</sub> in mallard (*Anas platyrhynchos*) is >2000 mg/kg.

Dietary LC<sub>50</sub> in bobwhite (*Colinus virginianus*) is >5253ppm.

Dietary LC<sub>50</sub> in mallard (*Anas platyrhynchos*) is >5156ppm.

## 12.2 Persistence and degradability

Based on information for Spinosyn A.

The photolysis half-life in soil is 8.68 days. The photolysis half-life in pH 7 buffer is 0.96 days. Under aerobic soil conditions the half-life is 9.4 and 17.3 days.

Based on information for Spinosyn D.

The photolysis half-life in soil is 9.44 days. The photolysis half-life in pH 7 buffer is 0.84 days. Under aerobic soil conditions the half-life is 14.5 days. BCF in fish is 33.

## 12.3 Mobility in soil

Not available

## 12.4 Result of PBT & vPvB assessment

Not available

## 12.5 Other adverse effects

Acute contact LD<sub>50</sub> in honey bee (*Apis mellifera*) is 0.05µg/bee.

Acute oral LD<sub>50</sub> in honey bee (*Apis mellifera*) is 0.06µg/bee.



## 13.0 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

See section 6.3.2.

### 13.2 Product / Packaging disposal

#### 13.2.1 Product waste disposal

Dispose of washings, contaminated materials, used absorbents, and other waste material is directed by local regulations. Improper disposal of excess waste is a violation of law. If excess waste cannot be disposed of according to label instructions, contact your country's pesticide or environmental control agency.

#### 13.2.2 Packing waste disposal

Container and washings must be disposed of safely and in accordance with applicable regulations. The preferred options are to send to licensed reclaimer or to permitted incinerators. Do not re-use container for any purpose.

## 14.0 TRANSPORT INFORMATION

### 14.1 Land transport (ADR/RID/GGVSE) : free

### 14.2 Sea transport (IMDG-Code/GGVSee): free

### 14.3 Air transport (ICAO-IATA/DGR): free

## 15.0 REGULATORY INFORMATION

### 15.1 Risk and safety phrases in accordance with the Directive 2001/58/EC

<b>Hazard Symbol</b>	See section 2.1.1 and 2.2.2
<b>R-Risk Phrases</b>	See section 2.1.1 and 2.2.2
<b>S-Safety Phrases</b>	See section 2.1.1 and 2.2.2

### 15.2 Hazard and Precautionary statements in accordance with the regulation 1272/2008/EC

<b>Pictograms and Signal Word Code(s)</b>	See section 2.1.1 and 2.2.1
<b>Hazard Statement Code(s)</b>	See section 2.1.1 and 2.2.1

## 16.0 OTHER INFORMATION

### 16.1 Hazard symbols mentioned in section 3 in accordance with the Directive 2001/58/EC

Hazard symbols :



N – Dangerous for the environment

## 16.2 Risk phrases mentioned in section 3 in accordance with the Directive 2001/58/EC:

R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 16.3 Hazard symbols mentioned in section 3 in accordance with the regulation 1272/2008/EC



GHS09

## 16.4 Hazard statements mentioned in section 3 in accordance with the regulation 1272/2008/EC:

H400 : Very toxic to aquatic life

H410 : Very toxic to aquatic life with long lasting effects

## 16.5 Further Information

The information contained herein relates only to the specified material identified. AGROMECC, believes that such information is accurate and reliable as of the data of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. AGROMECC urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

This material safety data sheet adopts the provisions of the European Commission Directive 2001/58/EC and Regulations 1272/2008 (CLP) and 453/2010 (REACH).