# Chemical Safety Data Sheet MSDS / SDS

# **SPINOSAD**

Revision Date: 2024-11-09 Revision Number: 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product name : SPINOSAD

CBnumber : CB5416798

CAS : 168316-95-8

Synonyms : Spinosads, Spinosad Standard

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

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.

Uses advised against : none

# **Company Identification**

Company : Chemicalbook

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 400-158-6606

# SECTION 2: Hazards identification

#### 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

## Label elements

# Pictogram(s)

Signal word Warning

# Hazard statement(s)

H410 Very toxic to aquatic life with long lasting effects

## Precautionary statement(s)

P273 Avoid release to the environment.

P391 Collect spillage. Hazardous to the aquatic environment

P501 Dispose of contents/container to.....

#### 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.

#### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

#### **Substance**

Product name : SPINOSAD

Synonyms : Spinosads, Spinosad Standard

CAS : 168316-95-8 MF : C41H65NO10

MW : 731.96

# SECTION 4: First aid measures

# **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.

# Most important symptoms and effects, both acute and delayed

no data available

# Indication of any immediate medical attention and special treatment needed

no data available

# SECTION 5: Firefighting measures

# **Extinguishing media**

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

# Specific Hazards Arising from the Chemical

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

## Advice for firefighters

Use water spray, powder, foam, carbon dioxide.

# SECTION 6: Accidental release measures

#### 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.

## **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.

## 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.

# SECTION 7: Handling and storage

## Precautions for safe handling

NO open flames. 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.

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

Separated from food and feedstuffs.

# SECTION 8: Exposure controls/personal protection

## Control parameters

# Occupational Exposure limit values

no data available

# **Biological limit values**

no data available

# **Exposure controls**

elimination area.

# Individual protection measures

# Eye/face protection

Wear safety spectacles.

Skin protection

Protective gloves.

# Respiratory protection

Avoid inhalation of dust.

# Thermal hazards

no data available

# SECTION 9: Physical and chemical properties

# Information on basic physicochemical properties

Physical state	neat
Colour	no data available
Odour	no data available
Melting point/freezing point	84 - 99.5 °C.
Boiling point or initial boiling point and	> 172 °C. Atm. press.:101.3 kPa.
boiling range	
Flammability	no data available
Lower and upper explosion	no data available
limit/flammability limit	
Flash point	no data available
Auto-ignition temperature	> 400 °C.
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	In water: 89.4 mg/L. Temperature:25 °C.
Partition coefficient n-octanol/water	log Pow = 3.91. Temperature:23 °C.
Vapour pressure	< 0 Pa. Temperature:25 °C.
Density and/or relative density	0.52. Temperature:20 °C.
Relative vapour density	no data available
Particle characteristics	no data available

# SECTION 10: Stability and reactivity

# Reactivity

no data available

# **Chemical stability**

no data available

# Possibility of hazardous reactions

no data available

# **Conditions to avoid**

no data available

# Incompatible materials

no data available

# Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

# **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/irritation

no data available

# Respiratory or skin sensitization

no data available

# Germ cell mutagenicity

no data available

# Carcinogenicity

no data available

# Reproductive toxicity

no data available

# STOT-single exposure

The substance is mildly irritating to the eyes.

# STOT-repeated exposure

# **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.

# **SECTION 12: Ecological information**

## **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.

# Persistence and degradability

no data available

## **Bioaccumulative potential**

no data available

# Mobility in soil

no data available

# Other adverse effects

no data available

# SECTION 13: Disposal considerations

## 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.

# **SECTION 14: Transport information**

## **UN Number**

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

# **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.)

# Transport hazard class(es)

ADR/RID: 9 (For reference only, please check.)

IMDG: 9 (For reference only, please check.)

IATA: 9 (For reference only, please check.)

## Packing group, if applicable

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

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

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

#### **Environmental hazards**

ADR/RID: Yes

IMDG: Yes

IATA: Yes

## Special precautions for user

no data available

# Transport in bulk according to IMO instruments

no data available

# **SECTION 15: Regulatory information**

# Safety, health and environmental regulations specific for the product in question

**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.

PICCS

Not Listed.

**Vietnam National Chemical Inventory** 

Listed.

**IECSC** 

Not Listed.

Korea Existing Chemicals List (KECL)

Not Listed

# SECTION 16: Other information

# Abbreviations and acronyms

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

#### References

IPCS - The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home

HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm

IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request\_locale=en

CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

ChemlDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg

Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp

ECHA - European Chemicals Agency, website: https://echa.europa.eu/

#### Other Information

Spinosad is a mixture of Spinosyn A (CAS 131929-60-7) and Spinosyn B (CAS 131929-63-0). If the substance is formulated with solvents also consult the ICSCs of these materials. Carrier solvents used in commercial formulations may change physical and toxicological properties.

#### Disclaimer:

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.