

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** NOKAUT**Formulation:** Suspension concentrate - SC**Active ingredient:** Spinosad**CAS Number:** 168316-95-8**EINECS Number:** 434-300-1**UFI:** H5SK-DPSE-U30T-VHJJ**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use** SU1 Agriculture, forestry, fishery**Product category** PC27 Plant protection products**Application of the substance / the mixture** Insecticides**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

GALENIKA-FITOFARMACIJA a.d.

Batajnicki drum bb

11080 Belgrade

tel: + 381 (11) 3072-301

fax: + 381 (11) 3072 310

e-mail: office@fitofarmacija.rs

1.4 Emergency telephone number:

Ministry of Labour, Welfare and Social Insurance, Department of Labour Inspection

P.O.Box 24855, 1304 Nicosia, Cyprus

tel: +35722405611

email: cy-chemregistry(at)dli.mlsi.gov.cy

website: http://www.mlsi.gov.cy/

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS09

Signal word Warning**Hazard-determining components of labelling:**

Spinosad

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

(Contd. on page 2)

Safety data sheet

according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

(Contd. of page 1)

P270 Do not eat, drink or smoke when using this product.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Standard phrases for safety precautions

SP 1 Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

Safety precautions related to the environment (SPe):

SPe 3: To protect aquatic organisms respect an unsprayed buffer zone of 15 m to surface water bodies.

SPe 3 To protect aquatic organisms respect an unsprayed buffer zone of 20 m to surface water bodies.

SPe 3 To protect non-target plants respect an unsprayed buffer zone of 5 m to non-agricultural land.

Spe8: To protect bees and other pollinating insects do not apply to crop plants when in flower or when there are honeydew exudates.

In greenhouse tomatoes, the bumblebees should be removed and the greenhouse closed for the protection of pollinators before applying the preparation.

2.3 Other hazards
Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substance Not applicable.

3.2 Mixtures
Dangerous components:

CAS: 168316-95-8	Spinosad	45.9%
	Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=10)	
CAS: 9069-80-1	Condensed naphthalene sulfonate, ammonium salt	<5%
	Eye Irrit. 2, H319	
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6	1,2-benzisothiazol-3(2H)-one	<0.05%
	Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400;	
	Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315;	
	Skin Sens. 1A, H317	
CAS: 2682-20-4 EINECS: 220-239-6 Index number: 613-326-00-9	ATE: LD50 oral: 450 mg/kg	<0.0015%
	LC50/4 h inhalative: 0.21 mg/l	
	Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %	
	2-methyl-2H-isothiazol-3-one	
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; Skin	
	Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10);	
	Aquatic Chronic 1, H410 (M=1); Skin Sens. 1A, H317, EUH071	
	ATE: LD50 oral: 100 mg/kg	
	LD50 dermal: 300 mg/kg	
	LC50/4 h inhalative: 0.05 mg/l	
	Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.0015 %	

(Contd. on page 3)

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

(Contd. of page 2)

Additional information: For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician.

After inhalation: Supply fresh air or oxygen; call for doctor.

After skin contact:

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

Call a poison control center or doctor for treatment advice.

After 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 eyes. Call a poison control center or doctor for treatment advice.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

There is no specific antidote available. Treat symptomatically.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**

To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.

5.2 Special hazards arising from the substance or mixture

Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus and complete personal protective equipment.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not dismiss the product in the natural environment. In case of accidental spillage, take any measure to avoid contamination of soils and rivers, collected as much product in a clean container to reuse or eliminate it (see section 13). If the product contaminates water bodies, rivers and drains prevent the competent authorities in accordance with regulatory procedures.

6.3 Methods and material for containment and cleaning up:

Collect scattered material.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 4)

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. of page 3)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Information about fire - and explosion protection: Use personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Keep in a cool, dry place in tightly closed original containers. Keep away from foodstuffs, beverages and feed. Keep away from children.

Requirements to be met by storerooms and receptacles: Do not store with strong oxidizing agents.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

8.2 Exposure controls

Appropriate engineering controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Hand protection



Protective gloves

Material of gloves

The selection of suitable gloves in accordance to EN 374.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Safety data sheet

according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

Eye/face protection

(Contd. of page 4)



Tightly sealed goggles

Body protection: Protective work clothing

Environmental exposure controls Do not allow to get into the environment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour:	Off white
Odour:	No data.
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Not determined.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	Not applicable.
Auto-ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
pH	6.5 – 8.5
Viscosity:	Data lacking.
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	Not applicable.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	1.05 – 1.15 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Oxidising properties	Not determined.
Evaporation rate	Not determined.

9.2.1. Information with regard to physical hazard classes

Explosives	Not applicable.
Flammable gases	Not applicable.
Aerosols	Not applicable.
Oxidising gases	Not applicable.

(Contd. on page 6)

Safety data sheet

according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

(Contd. of page 5)

Gases under pressure	Not applicable.
Flammable liquids	Not applicable.
Flammable solids	Not applicable.
Self-reactive substances and mixtures	Not applicable.
Pyrophoric liquids	Not applicable.
Pyrophoric solids	Not applicable.
Self-heating substances and mixtures	Not applicable.
Substances and mixtures, which emit flammable gases in contact with water	Not applicable.
Oxidising liquids	Not applicable.
Oxidising solids	Not applicable.
Organic peroxides	Not applicable.
Corrosive to metals	Not applicable.
Desensitised explosives	Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Stable under normal handling and storage conditions.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: carbon monoxide, carbon dioxide, nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 168316-95-8 Spinosad

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5.18 mg/l (Rat)

Primary irritant effect:

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

(Contd. on page 7)

Safety data sheet

according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

(Contd. of page 6)

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 168316-95-8 Spinosad

EC50 >1 mg/l (*Daphnia magna*)

LC50 27 mg/l (*Oncorhynchus mykiss*)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Remark:

Toxicity to honey bees:

CAS: 168316-95-8 Spinosad

Oral LD50 (48 h) 0.057 µg/bee (*Apis mellifera*)

Dermal LD50 (48 h) 0.0036 µg/bee (*Apis mellifera*)

Additional ecological information:

General notes: Very toxic for aquatic organisms

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Disposal must be made according to official local regulation.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to national official regulations.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA

UN3082

(Contd. on page 8)

Safety data sheet

according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

(Contd. of page 7)

14.2 UN proper shipping name
ADR/RID/ADN

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (spinosyn D, spinosyn A)
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (spinosyn D, spinosyn A), MARINE POLLUTANT
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (spinosyn D, spinosyn A)

IMDG
IATA
14.3 Transport hazard class(es)
ADR/RID/ADN, IMDG, IATA

Class

9 Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group
ADR/RID/ADN, IMDG, IATA

III

14.5 Environmental hazards:

Environmentally hazardous substance, solid

Marine pollutant:

Symbol (fish and tree)

Special marking (ADR/RID/ADN):

Symbol (fish and tree)

Special marking (IATA):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Hazard identification number (Kemler code):

90

EMS Number:

F-A,S-F

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:
ADR/RID/ADN
Transport category

3

Tunnel restriction code

(-)

Remarks:

Exempted from ADR+LQ (UN3077+ 3082 Class 9) according to extra provision ADR SV375 as of 01.01.15. "375. These substances when carried in single or combination packaging containing net quantity per single or inner packaging of 5 L or less for liquids having a net mass per single or inner packaging of 5KG or less for solids, are not subject to any other provisions."

UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPINOSYN D, SPINOSYN A), 9, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

(Contd. on page 9)

Safety data sheet

according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

(Contd. of page 8)

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category E1 Hazardous to the Aquatic Environment

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Hazard phrases:

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.

Date of previous version: 22.05.2025

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

(Contd. on page 10)

Safety data sheet
according to the REACH Regulation (EC) 1907/2006 amended by
Regulation (EU) 2020/878

Printing date: 22.05.2025

Version number 1

Revision: 22.05.2025

Trade name: NOKAUT

(Contd. of page 9)

*LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**ATE: Acute toxicity estimate values**Acute Tox. 3: Acute toxicity – Category 3**Acute Tox. 4: Acute toxicity – Category 4**Acute Tox. 2: Acute toxicity – Category 2**Skin Corr. 1B: Skin corrosion/irritation – Category 1B**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Skin Sens. 1A: Skin sensitisation – Category 1A**Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1**Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*