

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

Printing date: 20.11.2023

Version number 3

Revision: 14.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** TALISMAN**Formulation:** Oily dispersion - OD**Active ingredient:** Nicosulfuron**CAS Number:** Nicosulfuron: 111991-09-4**UFI:** 1D8H-TA36-630Y-GC8E**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** Herbicides**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:

Poison Control Center

Ksaverska cesta 2, POB 291, 10000 Zagreb, Croatia

(+385) 01 2348 342

Emergency Tel. No. 112

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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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

GHS07 GHS09

Signal word Warning**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statements

- P102 *Keep out of reach of children.*
P273 *Avoid release to the environment.*
P280 *Wear protective gloves / eye protection / face protection.*
P302+P352 *IF ON SKIN: Wash with plenty of water/soap.*
P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
P333+P313 *If skin irritation or rash occurs: Get medical advice/attention.*
P337+P313 *If eye irritation persists: Get medical advice/attention.*
P362+P364 *Take off contaminated clothing and wash it before reuse.*
P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*

Additional information:

EUH208 Contains Polyethylene glycol esters of fatty acids. 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 for operators (SPo):

Treated crops should not be re-entered before spray deposits on leaf surfaces have completely dried. In case a worker enters the field, long trousers and long-sleeved shirt should be worn.

Safety precautions related to the environment (SPe):

Spe 3: To protect aquatic organisms respect an unsprayed zone of 5 m to body-surface water.
Spe 3: To protect non-target plants respect an unsprayed zone of 10 m to non agricultural land.

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

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 111991-09-4	Nicosulfuron Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100)	4%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) STOT RE 1, H372 Specific concentration limit: STOT RE 1; H372: C ≥ 10 %	<1%
EC number: 939-290-7	Quaternary ammonium compounds, benzyl-C16-C18-alkyldimethyl, chlorides Skin Corr. 1B, H314; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); Acute Tox. 4, H302 ATE: LD50 oral: 500 mg/kg	<0.5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

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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; consult doctor in case of complaints.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing and shoes. Wash affected area with plenty of water. Seek medical attention if necessary. Wash contaminated clothing before next use.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately seek qualified medical advice.

After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse mouth. Call a 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:**

Carbon dioxide

Foam

Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Carbon dioxide (CO₂)

Sulphur dioxide (SO₂)

5.3 Advice for firefighters

Protective equipment: Wear fully protective suit and self-contained respiratory protective device.

Additional information

Information on ignition temperature and self-ignition can be found in chapter 9: Physical and chemical properties.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Refer to section 8.

For non-emergency personnel

Wearing of suitable protective equipment (including personal protective equipment referred to under section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing is recommended.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

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Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

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

Ensure adequate ventilation.

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 disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid inhalation and contact with skin and eyes. Wear protective clothing and protective equipment for eyes and face. Do not eat, drink or smoke. After handling wash hands and face with soap and water. Wash contaminated clothing.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: *No special measures required.*

7.2 Conditions for safe storage, including any incompatibilities**Storage:**

Store at room temperature in closed containers.

Store in a dry and cool place in original packaging.

Requirements to be met by storerooms and receptacles: *Store only in the original receptacle.*

Information about storage in one common storage facility: *Store away from foodstuffs.*

Further information about storage conditions: *Store under lock and key and out of the reach of children.*

Recommended storage temperature: 5-30 °C

7.3 Specific end use(s) *Refer to the label.*

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: *Wash hands before breaks and at the end of work.*

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 (EN 374).



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Material of gloves The selection of suitable gloves in accordance to EN 374.

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.

Eye/face protection Goggles recommended during refilling

Body protection: Use protective suit.

Environmental exposure controls No special precautions required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties**General Information**

Physical state	Fluid
Colour:	Light beige
Odour:	Mild
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined.
Boiling point or initial boiling point and boiling range	Not determined.
Flammability	Product is not flammable.
Lower and upper explosion limit	Data lacking.
Lower:	Not determined.
Upper:	Not determined.
Flash point:	>110 °C (CIPAC MT 12)
Auto-ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
pH	4.2 (CIPAC MT 75)
Viscosity:	Data lacking.
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	Miscible.
water:	Dispersible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	0.9653 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Explosive properties: Product does not present an explosion hazard.

Crystallisation temperature / range:

Data lacking.

Oxidising properties

Not determined.

Evaporation rate

9.2.1. Information with regard to physical hazard classes

Pyrophoric liquids

Not applicable.

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SECTION 10: Stability and reactivity

10.1 Reactivity No hazardous reactions when stored and handled according to instructions.

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 Source of ignition, heat, fire, high humidity, sparks.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

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: 111991-09-4 Nicosulfuron

Oral	LD50	>2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)
Inhalative	LC50/4 h	>5.47 mg/l (Rat)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: May cause an allergic skin reaction.

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.

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: 111991-09-4 Nicosulfuron

EC50	7.8 mg/l (algae) (72 h)
	0.0017 mg/l (Aquatic organisms) (7 dana)
	90 mg/l (Daphnia magna)
	65.7 mg/l (Fish) (96 h)

12.2 Persistence and degradability Nicosulfuron is considered as non-persistent.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil High mobility in soil.

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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:** Very toxic for fish**Additional ecological information:****General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

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.

Waste disposal key:

02 01 08* agrochemical waste containing dangerous substances

15 01 10* packaging containing residues of or contaminated by dangerous substances

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

14.2 UN proper shipping name**ADR/RID/ADN**3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S. (Nicosulfuron)**IMDG**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Nicosulfuron), MARINE POLLUTANT**IATA**ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (Nicosulfuron)**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**

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14.5 Environmental hazards:	Environmentally hazardous substance, liquid
Marine pollutant:	Symbol (fish and tree)
Special marking (ADR/RID/ADN):	Symbol (fish and tree)
Special marking (ATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Hazard identification number (Kemler code):	90
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

Transport/Additional information:**ADR/RID/ADN****Limited quantities (LQ)**

5L

Transport category

3

IMDG**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 lit or less for liquids having a nett 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. (NICOSULFURON), 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).

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.

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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:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Date of previous version: 07.04.2023**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

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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

* **Data compared to the previous version altered.**