

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 09.01.2023

Version number 5 (replaces version 4)

Revision: 09.01.2023

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

Galenika-Fitofarmacija AD

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 Military Medical Academy

Crnotravska 17, Belgrade, Serbia

tel: + 381 (11) 3608-440, 00-24h

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.

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.

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.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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P302+P352 *IF ON SKIN: Wash with plenty of water.*

P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*

P332+P313 *If skin irritation occurs: Get medical advice/attention.*

P362+P364 *Take off contaminated clothing and wash it before reuse.*

P337+P313 *If eye irritation persists: Get medical advice/attention.*

P391 *Collect spillage.*

P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*
Additional information:

EUH401 *To avoid risks to human health and the environment, comply with the instructions for use.*
Standard phrases for safety precautions SP1 *Do not contaminate water with the product or its container.*
Safety precautions related to the environment (SPe):

SPe3: *To protect non-target plants, use 90% nozzle reduction or respect an unsprayed buffer zone of 5 m and 50% nozzle reduction, or respect 10 m unsprayed buffer zone.*

SPe3: *To protect aquatic organisms, respect an unsprayed buffer zone of 20 m (with 10 m vegetation belt)*
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: 111991-09-4	Nicosulfuron	4.2%
	Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100)	
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂)	<1%
	STOT RE 1, H372 Specific concentration limit: STOT RE 1; H372: C ≥ 10 %	
EC number: 939-290-7	Quaternary ammonium compounds, benzyl-C16-C18-alkyldimethyl, chlorides Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	<0.5%

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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: *Supply fresh air; consult doctor in case of complaints.*
After skin contact: *Immediately wash with water and soap and rinse thoroughly.*
After eye contact: *Rinse opened eyes for several minutes under running water.*
After swallowing:
If symptoms persist consult doctor.
Do not induce vomiting; call for medical help immediately.

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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:**

Water spray

Carbon dioxide

Foam

For safety reasons unsuitable extinguishing agents: Water with full jet**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.**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 allow product to reach sewage system or any water course.

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).

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.

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.

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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.

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.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see item 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: Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection


Protective gloves

Protective gloves (EN 374)

Eye/face protection

Goggles recommended during refilling



Tightly sealed goggles

Body protection: Use protective suit.

Environmental exposure controls No special precautions required.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

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
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
pH	3.6-5.0

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Viscosity:	Data lacking.
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	Miscible.
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not applicable.
Density and/or relative density	
Density at 20 °C:	0.96 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Form:	Liquid
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Crystallisation temperature / range:	
Oxidising properties	Data lacking.
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.
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** Hazardous polymerisation does not occur.
- 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.

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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	>5000 mg/kg (Rat)
Dermal	LD50	>2000 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: 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.

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 (Alga) (72 h)
	0.0017 mg/l (Aquatic organisms) (7 days)
	65.7 mg/l (Fish) (96 h)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential Does not accumulate in organisms

12.4 Mobility in soil High mobility in soil.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

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.

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

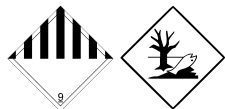
14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA

3082 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, IMDG, IATA

III

14.5 Environmental hazards:

Product contains environmentally hazardous substances:
Nicosulfuron

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.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

Transport/Additional information:

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."

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Trade name: TALISMAN**UN "Model Regulation":**

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UN3082, 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).

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

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.

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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

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