



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

Printing date: 31.01.2019

Version number 2

Revision: 07.03.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** *TALISMAN (EU)***Formulation:** *Oily dispersion - OD***Active ingredient:** *Nicosulfuron***CAS Number:** *Nicosulfuron: 111991-09-4***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**Batajnicketi drum bb**11080 Zemun, 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.**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-determining components of labelling:***Quaternary ammonium compounds, benzyl-C16-C18-alkyldimethyl, chlorides**Nicosulfuron***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.***Precautionary statements***P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**P280 Wear protective gloves/protective clothing/eye protection/face 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.*
 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: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 4 *To protect aquatic organisms/non-target plants do not apply on impermeable surfaces such as asphalt, concrete, cobblestones, railway tracks and other situations with a high risk of run-off.***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 **Chemical characterisation:** *Mixtures**Description: Mixture of substances listed below with nonhazardous additions.***Dangerous components:**

CAS: 111991-09-4	Nicosulfuron <i>Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100)</i>	4.2%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) STOT RE 1, H372	< 1%
EC number: 939-290-7	Quaternary ammonium compounds, benzyl-C16-C18-alkyldimethyl, chlorides <i>Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302</i>	< 0.5%

SECTION 4: First aid measures**4.1 Description of first aid measures***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.*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:***Use fire extinguishing methods suitable to surrounding conditions.*

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*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.***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****Additional information about design of technical facilities:** *No further data; see item 7.***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.*

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8.2 Exposure controls**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.**Protection of hands:**

Protective gloves

Protective gloves (EN 374).

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

Material of gloves

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.

Eye protection:

Tightly sealed goggles

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****Appearance:**

Form:	Liquid
Colour:	Light beige
Odour:	Mild
Odour threshold:	Not determined.
pH-value:	3.6-5.0
Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not determined.
Flash point:	> 110 °C
Flammability (solid, gas):	Product is not flammable.
Ignition temperature:	Undetermined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits:	Data lacking.
Oxidising properties	Data lacking.
Vapour pressure:	Not determined.
Density at 20 °C:	0.96 g/cm ³
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	Miscible.
Partition coefficient: n-octanol/water:	Not determined.

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Viscosity: Data lacking.

Solvent content:

VOC (EC) 0,00 %

9.2 Other information No further relevant information available.

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.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
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)

Primary irritant effect:**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.**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:**

CAS: 111991-09-4 Nicosulfuron

EC50	90 mg/l (Daphnia magna) (48 h)
ErC50	7.8 mg/l (Alga) (72 h)
LC50	65.7 mg/l (Fish) (96 h)

12.2 Persistence and degradability No further relevant information available.**Behaviour in environmental systems:****12.3 Bioaccumulative potential** No further relevant information available.

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12.4 Mobility in soil High mobility in soil.**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.

12.5 Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation**

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

Disposal must be made according to official local regulation.

Uncleaned packaging:**Recommendation:** Disposal must be made according to national official regulations.**SECTION 14: Transport information****14.1 UN-Number**

ADR/RID/ADN

UN3082

14.2 UN proper shipping name

ADR/RID/ADN

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
LIQUID, N.O.S.**14.3 Transport hazard class(es)**

ADR/RID/ADN

**Class**

9 Miscellaneous dangerous substances and articles.

Label

9

14.4 Packing group

ADR/RID/ADN

III

14.5 Environmental hazards:

Environmentally hazardous substance, solid

Special marking (ADR/RID/ADN):

Symbol (fish and tree)

14.6 Special precautions for user

Warning: Miscellaneous dangerous substances and articles.

Danger code (Kemler):

90

14.7 Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC Code

Not applicable.

Transport/Additional information:

ADR/RID/ADN

Limited quantities (LQ)

LQ28

UN "Model Regulation":UN 3082 ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S., 9, III

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

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.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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)

VOC: Volatile Organic Compounds (USA, EU)

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.