



Safety Data Sheet

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006

SHIRO 500

Preparation Date 03-Dec-2019

Revision date 18-May-2020

Revision Number: 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the product

Product code	HDD01
Product Description	SHIRO 500
Formulation	Triflurosulfuron-methyl 50% WG
Synonyms	-
Pure substance/preparation	Preparation

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Recommended use	Herbicide
Sector(s) of use	SU1 - Agriculture, forestry, fishery
Product category	PC27 - Plant protection products

1.3 Details of the Supplier of the Safety Data Sheet

Supplier	UPL Deutschland GmbH Kölnstr. 107-109 50321 Brühl Germany Tel. + 49 2232-569341-0 Fax. + 49 2232-569341-9 www.upldeutschland.de sds.info@upl-ltd.com
E-mail address	

1.4 Emergency telephone number

Emergency Telephone	(CARECHEM 24): +44 (0) 1235 239670
Austria	Vergiftungsinformationszentrale (AT): +43-(0)1-406 43 43

Section 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye irritation Category 2 - (H319)

Carcinogenicity Category 2 - (H351)

Acute aquatic toxicity Category 1 - (H400)

Chronic Aquatic Toxicity Category 1 - (H410)

Additional information

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]



signal word

WARNING

Hazard Statements

H319 - Causes serious eye irritation

H351 - Suspected of causing cancer

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

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P264 - Wash hands thoroughly after handling

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

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 - IF exposed or concerned: P351 - Rinse cautiously with water for several minutes P338 - Remove contact lenses, if present and easy to do. Continue rinsing

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P391 - Collect spillage

P501 - Dispose of contents/ container in accordance with national regulation

EU Specific Hazard Statements

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

2.3 Other Hazards

No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures**

Chemical name	CAS No	EC No	Index-No.	REACH No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Triflusulfuron-methyl	126535-15-7	603-146-9	607-714-00-7	-	40 - 50	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Carc. 2 (H351)
Sodium dioctyl sulfosuccinate	577-11-7	209-406-4	-	01-2119491296-29	1 - 5	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES**4.1 Description of first-aid measures****General advice**

- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Inhalation

- Move to fresh air
- Call a POISON CENTER or doctor if you feel unwell

Eye contact

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists, consult a specialist

Skin contact

- Wash off immediately with plenty of water
- If symptoms persist, call a physician

Ingestion

- Do NOT induce vomiting
- Call a physician or poison control center immediately
- Never give anything by mouth to an unconscious person
- Rinse mouth with water

Self-protection of the first aider

- First aider: Pay attention to self-protection

4.2 Most Important Symptoms and Effects, Both Acute and Delayed**Symptoms**

- No information available

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed**Note to physicians**

- Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

- Water spray
- Carbon dioxide (CO₂)
- Foam
- Dry powder

Unsuitable extinguishing media

- High volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

- Hazardous decomposition products formed under fire conditions:
- Carbon dioxide (CO₂)
- Oxides of Nitrogen (NO_x)

5.3 Advice for Firefighters

- Wear self-contained breathing apparatus and protective suit

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal Precautions

- Avoid contact with skin and eyes
- Wear protective gloves/protective clothing and eye/face protection

Emergency procedures

- Evacuate personnel to safe areas

Emergency responder

- Use personal protective equipment as required
- Evacuate personnel to safe areas

6.2 Environmental Precautions

- Prevent further leakage or spillage if safe to do so
- Do not allow material to contaminate ground water system
- Do not flush into surface water or sanitary sewer system

6.3 Methods and material for containment and cleaning up

Methods for containment

- Prevent further leakage or spillage if safe to do so

Methods for cleaning up

- Take up mechanically, placing in appropriate containers for disposal

Prevention of secondary hazards

- Clean contaminated objects and areas thoroughly observing environmental regulations

6.4 Reference to other sections

- No information available

Section 7: HANDLING AND STORAGE**7.1 Precautions for safe handling****Advice on safe handling**

- Provide adequate ventilation
- Use only outdoors or in a well-ventilated area
- Ensure that eyewash stations and safety showers are close to the workstation location

General hygiene considerations

- Do not eat, drink or smoke when using this product
- Keep away from food, drink and animal feeding stuffs
- Avoid contact with skin and eyes
- Wash hands before breaks and immediately after handling the product
- Remove contaminated clothing and protective equipment before entering eating areas

7.2 Conditions for safe storage, including any incompatibilities

- Keep in properly labeled containers
- Keep containers tightly closed in a dry, cool and well-ventilated place
- Keep away from heat and sources of ignition
- Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur.

Storage class

- Lagerklasse gemäß TRGS 510: 13 (Nicht brennbare Feststoffe)

7.3 Specific end uses

- Herbicide
- Please refer to the product labeling and packaging for information about appropriate use

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Exposure Limits

- Contains no substances with occupational exposure limit values

8.2 Exposure Controls

Engineering controls

- Ensure adequate ventilation, especially in confined areas

Personal Protective Equipment

Eye/face protection

- Safety glasses with side-shields
- Eye protection must conform to standard EN 166

Hand protection

- Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed.

Wash hands frequently and always before eating, drinking, smoking or using the toilet.

- Gloves must conform to standard EN 374
- Wear protective nitrile rubber gloves
- Rate of permeability : > 480 min
- Glove thickness : > 0,4 mm

Skin and body protection

- Wear standard coveralls and Category 3 Type 5 suit.

If there is a risk of significant exposure, consider a higher protective type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Respiratory protection

- When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

General hygiene considerations

- Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls

- Local authorities should be advised if significant spillages cannot be contained
- Do not allow into any sewer, on the ground or into any body of water
- Prevent product from entering drains

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	light brown
Physical state	solid, water dispersible granule (WG)
Odor	Woody

Product information

- Data obtained on this product or a similar product

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	7.1	(1% solution) CIPAC MT 75.3
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	Not required	
Flammability (solid, gas)	Not highly flammable	EC A.10
Specific gravity	0.7 - 0.9 g/mL	CIPAC MT 186
Water solubility	Soluble in water	
Solubility in Other Solvents	no data available	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	EC A.16
Decomposition temperature	No information available	
Viscosity	Not required	
Oxidizing properties	The substance or mixture is not classified as oxidizing.	EC A.17
Explosive properties	According to the chemical structure no explosion reaction is expected	EC A.14

9.2 OTHER INFORMATION

VOC Content	No information available
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Section 10: STABILITY AND REACTIVITY**10.1 Reactivity**

- No information available

10.2 Chemical stability

- Stable under normal conditions

10.3 Possibility of hazardous reactions

- None under normal processing

10.4 Conditions to avoid

- Protect from moisture
- Decomposes slowly on exposure to water
- To avoid thermal decomposition, do not overheat
- May form explosive mixtures with air

10.5 Incompatible materials

- No materials to be especially mentioned

10.6 Hazardous decomposition products

- Hydrogen fluoride
- Oxides of sulfur

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Product Information

- Data obtained on this product or a similar product

Acute toxicity

LD50 Oral > 5000 mg/kg (rat) - OECD 401

LD50 Dermal > 2000 mg/kg (rat) - OECD 402

LC50 Inhalation > 6.1 mg/L mg/l (rat) (4h) - OECD 403

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium dioctyl sulfosuccinate	= 3080 mg/kg (Rat) = 1900 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	

Skin corrosion/irritation

- No skin irritation
- OECD 404

Serious eye damage/eye irritation

- No eye irritation
- OECD 405

Respiratory or skin sensitization

- Not a skin sensitizer
- US EPA 81-6

Germ cell mutagenicity

- No information available

Carcinogenicity

- Suspected of causing cancer

Reproductive toxicity

- No information available

Specific target organ toxicity (single exposure)

- Not classified

Specific target organ toxicity (repeated exposure)

- Not classified

Aspiration hazard

- No information available

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

EC50/72h/algae = 0.94 mg/L (Pseudokirchneriella subcapitata) - OECD 201
EC50/48h/daphnia = 145.8 mg/L (Daphnia magna) - OECD 202
EC50/14d/Aquatic plants = 0.0043 mg/L (Myriophyllum spicatum) - OECD 239

12.2 Persistence and Degradability

- Triflusulfuron methyl: Not readily biodegradable

12.3 Bioaccumulative Potential

- Triflusulfuron methyl: Does not bioaccumulate

12.4 Mobility in Soil

- No information available

12.5 Results of PBT and vPvB Assessment

- This substance is not considered to be very persistent nor very bioaccumulating (vPvB)

12.6 Other Adverse Effects

- No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Waste from residues/unused products

- Dispose of in accordance with local regulations

Contaminated packaging

- Empty containers should be taken for local recycling, recovery or waste disposal

EWC waste disposal No

- 020108 - agrochemical waste containing dangerous substances

OTHER INFORMATION

- According to the European Waste Catalogue, Waste Codes are not product specific, but application specific
- Waste codes should be assigned by the user based on the application for which the product was used

Section 14: TRANSPORT INFORMATION

14.1 UN Number

- ADR, IMDG, IATA : UN3077

14.2 UN proper shipping name

- ADR : Environmentally hazardous substance, solid, n.o.s. (Triflusulfuron-methyl Mixture)
- IMDG : Environmentally hazardous substances, solid n.o.s. (Triflusulfuron-methyl Mixture)
- IATA : Environmentally hazardous substances, solid n.o.s. (Triflusulfuron-methyl Mixture)

14.3 Transport Hazard Class(es)

Hazard class

- ADR, IMDG, IATA : 9

Subsidiary class

- ADR, IMDG, IATA : Not applicable

14.4 Packing Group

- ADR, IMDG, IATA : III

14.5 Environmental Hazards

- ADR, IATA : DANGEROUS FOR THE ENVIRONMENT
- IMDG : Marine pollutant

14.6 Special Precautions for User

Special Provisions

- ADR : 274, 335, 375, 601
- IMDG : 274, 335, 966, 967, 969
- IATA : A97, A158, A179, A197

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not applicable

Section 15: REGULATORY INFORMATION

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

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

15.2 Chemical safety assessment

- A chemical safety assessment has not been carried out

Section 16: OTHER INFORMATION**Full text of H-Statements referred to under sections 2 and 3**

- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H351 - Suspected of causing cancer
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects

Classification procedure

- On basis of test data
- Calculation method

Abbreviations and acronyms

- CLP : Classification, Labelling and Packaging = Regulation (EC) No 1272/2008
- CAS : Chemical Abstracts Service
- EC No : EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- LDx : Lethal dose to x %
- LCx : Lethal concentration to x %
- ECx : Effective concentration to x %
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
- Very Persistent and very Bioaccumulative (vPvB) Chemicals
- EWC : European Waste Catalogue
- ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road
- IMDG : International Maritime Dangerous Goods Code
- IATA : International Air Transport Association

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Reason for revision Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 + Commission Regulation (EU) No 2015/830 of 28 May 2015

Disclaimer

The information contained is based on our knowledge of the product at the date of publishing. It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and duplicated for prevention and Safety purposes. For rates and use recommendations, refer to the information displayed on the packaging. It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

End of Safety Data Sheet