

Safety Data Sheet

SHIRO

Preparation Date 09-Feb-2016 Revision date 21-Feb-2017 **Revision Number: 3** 1. Identification of the substance/mixture and of the company/undertaking 1.1 Identification of the product Product code HDD01 SHIRO **Product Description:** Triflusulfuron-methyl 500 g/kg 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 Agricultural applications. 1.3 Details of the Supplier of the Safety Data Sheet UPL Europe Ltd Supplier The Centre **Birchwood Park** Warrington WA3 6YN Cheshire UK Tel. : +44 (0) 1925 819999 Fax: +44 (0) 1925 856075 E-mail address info@uniphos.com **1.4 Emergency Telephone Number Emergency telephone number** (CARECHEM 24): +44 (0) 1235 239670 **United Kingdom** NHS no. 111

2. Hazards Identification

2.1 Classification of the mixture

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

Human Health Carcinogenicity	Category 2 - H351
Environment Acute aquatic toxicity	Category 1 - H400
Chronic aquatic toxicity	Category 1 - H410

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 H351 - Suspected of causing cancer

H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements - EU (§28, 1272/2008)

P201 - Obtain special instructions before use

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

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

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

3. Composition/information on Ingredients

3.2. MIXTURES

Chemical name	EC No	CAS-No	Weight %	Classification (Dir.67/548)	EU - GHS Substance Classification	REACH No.
Triflusulfuron-methyl	-	126535-15-7	40 - 50	-	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Carc. 2; H351	no data available
Sodium dioctyl sulfosuccinate	209-406-4	577-11-7	1 - 5	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	no data available

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

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)
Eye contact	IF IN EYES: Rinse continuously 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
Inhalation	Move to fresh air Call a POISON CENTER or doctor if you feel unwell

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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

Special Hazard

Hazardous decomposition products formed under fire conditions:: Carbon dioxide (CO2), Nitrogen oxides (NOx)

5.3 Advice for Firefighters

This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation Use personal protective equipment Avoid dust formation Do not breathe dust

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so Do not allow material to contaminate ground water system Prevent product from entering drains Local authorities should be advised if significant spillages cannot be contained

6.3 Methods and material for containment and cleaning up

Recover the product by sweeping up or vacuuming without raising dust. Sweep up or vacuum spilled material into a labeled waste container. Disposal by a licensed waste disposal contractor.

7. Handling and Storage

7.1 Precautions for Safe Handling

Handling

Provide adequate ventilation Ensure that eyewash stations and safety showers are close to the workstation location

Hygiene Measures

Use only outdoors or in a well-ventilated area Remove contaminated clothing and protective equipment before entering eating areas Wash hands before eating, drinking or smoking Wash thoroughly after handling

7.2 Conditions for safe storage, including any incompatibilities

Keep out of the reach of children Keep in properly labelled 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.

7.3 Specific end uses

No information available.

8. Exposure Controls/Personal Protection

8.1 Control Parameters

Exposure Limits	Apply technical measures to comply with the occupational exposure limits
Derived No Effect Level (DNEL)	No information available
Predicted No Effect Concentration (PNEC)	No information available
8.2 Exposure Controls	
Engineering controls	Ensure adequate ventilation, especially in confined areas
Personal Protective Equipment	
Eye protection Skin protection Hand protection Respiratory protection	Safety glasses with side-shields. (EN166). Long sleeved clothing. Nitrile rubber. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained Do not allow material to contaminate ground water system Prevent product from entering drains

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Physical state Odor	brown solid, water dispersible granule (WG) Woody	
Property	VALUES	Remarks/ Method
pH	7.1	(1% solution)
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	Not required	
Flammability (solid, gas)	Not flammable	
Specific gravity	0.7 - 0.9 g/mL	
Water solubility	Soluble in water	
Solubility in Other Solvents	No information available	
Partition coefficient: n-octanol/wate	erNo information available	
Autoignition temperature	Not expected	
Decomposition temperature	No information available	
Viscosity	Not required	
Oxidizing properties	The substance or mixture is not classi	
Explosive properties	According to the chemical structure no	explosion reaction is expected

9.2 OTHER INFORMATION

VOC Content

No information available

10. Stability and Reactivity

10.1 Reactivity

None under normal use.

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

11. Toxicological Information

11.1 Information on Toxicological Effects

Data obtained on this product or a similar product

Acute toxicity

Local effects Inhalation Eye contact Skin contact Ingestion	There is no data available for this product. No eye irritation. (rabbit). No skin irritation. (rabbit). There is no data available for this product.
LD50 Oral LD50 Dermal LC50 Inhalation	 > 5000 mg/kg (rat) > 2000 mg/kg (rat) > 6.1 mg/L mg/l (rat) (4h)
Chronic toxicity	
Skin Corrosion/Irritation	None.
Eye damage/irritation	None.
Sensitization	Not a skin sensitizer.
Carcinogenic effects	Suspected of causing cancer
Mutagenic effects	No information available
Reproductive effects	No information available
STOT - Single Exposure	Not classified.
STOT - Repeated Exposure	Not classified.

12. Ecological Information

12.1 Toxicity

LC50 (96h) fish (Oncorhynchus mykiss): 730 mg/L (triflusulfuron) EC50 (48h) daphnia magna: 145.8 mg/L EC50 (120h) algae: 0.93 mg/L EC50 (14d) aquatic plants (Lemna gibba): 0.013 mg/L EC50 (14d) aquatic plants (Myriophyllum spicatum): 0.0043 mg/L

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2 Persistence and Degradability

Not readily biodegradable: Triflusulfuron methyl

12.3 Bioaccumulative Potential

Does not bioaccumulate: Triflusulfuron methyl

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.

13. Disposal Considerations

13.1 Waste Treatment Methods

Waste from Residues/Unused Products	Dispose of in accordance with local regulations.
Contaminated packaging	Empty remaining contents. 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.

14. Transport Information

ADR/RID	
14.1 UN-No	UN3077
14.2 Proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Triflusulfuron-methyl Mixture)
14.3 Hazard class	9
14.4 Packing group	
14.5 Environmental Hazard	DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions	274, 335, 375, 601
IMDG/IMO	
14.1 UN-No	UN3077
14.2 Proper shipping name	Environmentally hazardous substances, solid n.o.s. (Triflusulfuron-methyl Mixture)
14.3 Hazard class	9
14.4 Packing group	
14.5 Environmental Hazard	Marine pollutant
14.6 Special Provisions	274, 335, 966, 967, 969
IATA/ICAO	
14.1 UN-No	UN3077
14.2 Proper shipping name	Environmentally hazardous substances, solid n.o.s. (Triflusulfuron-methyl Mixture)
14.3 Hazard class	9
14.4 Packing group	
14.5 Environmental Hazard	DANGEROUS FOR THE ENVIRONMENT
14.6 Special Provisions	A97, A158, A179, A197

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Registration n°

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

17439

International Inventories

TSCA EINECS/ ELINCS	Complies Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
China	-
AICS	Complies
KECL	Complies

Legend

 TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 AICS - Australian Inventory of Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16. Other Information

Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H318 - Causes serious eye damage

H351 - Suspected of causing cancer

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Revision date 21-Feb-2017

Revision note Sections updated: 1

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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 responsability 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