

Safety Data Sheet (SDS) Spyder

According to UN GHS 8th Ed

Revision Date: 16/08/2022

First print date: 01/03/2021

Version: 1.1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: Spyder

Common Name: Chlorsulfuron 750 g/kg WG

Relevant identification uses of the substance and uses advised against:

Identified uses: Herbicide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Details of the Registration Holder:

Erintrade t/a RT Chemicals, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

Emergency telephone numbers:

24 Hour Emergency Number: Bateleur: +27 83 123 3911

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None known

The most important adverse human health effects: None known

Label elements



Hazard pictograms

Signal Word: Warning

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Hazard Statements:

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P102	Keep out of reach of children
P103	Read label before use
P273	Avoid release to the environment.
P391	Collect spillage
P501	Dispose of contents/container in accordance with local/regional/ national regulations

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients: Mixture of substances listed below with nonhazardous additions.

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Chlorsulfuron	64902-72-3	74.8%	Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410
Sodium benzene sulfonate	515-42-4	< 5 %	Skin Irritation (Category 2) H315 Eye Irritation (Category 2) H319 STOT SE (Category 3) H335

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop

In case of skin contact: In case of irritation, remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

In case of ingestion: If swallowed, do not induce vomiting. Rinse out mouth with water and give water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed:

Inhalation: May cause respiratory irritation.

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: May cause gastrointestinal irritation, nausea, diarrhea, and vomiting

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

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Small Fire: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

Large Fire: Water fog or foam can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

Fire Hazard: Product is not flammable.

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

Advice for fire-fighters:

Avoid inhaling hazardous vapours and fumes. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment, and emergency procedures:

For non-emergency personnel: Wear an approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

For emergency responders: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

Environmental precautions:

Stop leak if without risk. Prevent entry into drains, watercourses, or confined areas; dike if needed. If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Dispose in a safe manner in accordance with local/national regulations.

Methods for containment and cleaning up:

Isolate area and keep unauthorized personnel away. Contain spilled material if possible. Clean up promptly. Do not use water to collect spilled product. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Do not flush spilled product into drains. Avoid generating dust. Wear PPE. Collect in suitable and properly labelled containers.

Reference to other sections:

See section 1 for emergency contact details

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust. Food, beverages, and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store in original containers. Store product in a segregated and approved area. Keep container in a cool, well-ventilated

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area at temperatures not exceeding 40°C Keep container tightly closed and sealed until ready for use. Keep under lock and key out of reach of unauthorized persons, children, and animals. Store away from incompatible substances. Provide adequate exhaust ventilation in areas where dust may form.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Acceptable Daily Intake (ADI): No data available

Occupational Exposure Limits : No data available

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use splash proof safety glasses and face shield .

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product, apron, rubber boots.

Respiratory protection Where an inhalation risk exists, wear a Class P1 (particulate) respirator.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid granules
Colour	White to slightly beige
Odour	Odourless
Odour threshold	No data available
pH	No data available
Melting point (°C) (Chlorsulfuron)	170 to 173 °C (with decomposition starting at 150 °C)
Boiling point (°C)	No data available
Flash point (°C)	No flash points up to 100°C.
Evaporation rate	No data available
Flammability	Non-flammable, but combustible. Will decompose in direct
Upper /lower flammability limits	No data available
Vapour pressure 25°C (Chlorsulfuron)	3×10^{-6} mPa (2.3×10^{-11} mmHg).
Vapour density	Heavier than air.
Relative density g/ml (20°C)	Not applicable
Water solubility (g/l) at 25°C (Product - Chlorsulfuron 750 g/kg WG)	Disperses in water.

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Partition coefficient : n-octanol/water partition coefficient (Chlorsulfuron)	(n-octanol/water) reported values for log P at 25 °C: -1.3 to -1.0 (pH 7), 0.3 to 0.7 (pH 5), -1.4 (pH 9)
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	Under severe dusting conditions, this material may form
Oxidising properties	No data available
Explosive limits	No data available
Hydrolysis	Hydrolysed in strong acidic or alkaline media. In aqueous solutions, DT ₅₀ = 4 to 8 weeks (at pH 5.7–7.0) and DT ₅₀ > 31 days (at pH 9). Significant degradation in 24 to 48 hours at pH < 5 (DT ₅₀ = 6 days, pH 5 at 35 °C). Hydrolysis is promoted by polar organic solvents, e.g. methanol and acetone

SECTION 10. STABILITY AND REACTIVITY

Reactivity: None known

Chemical stability: The product is stable when stored under normal storage conditions at normal temperatures. None of the components contain highly reactive functional groups and the active ingredient, Chlorsulfuron, will only react at an appreciable rate under extreme conditions of pH when it will be hydrolysed.

Possibility of hazardous reactions: None known

Conditions to avoid: Avoid excessive heat and ignition sources. Store away from strong oxidising agents.

Store separate from and prevent contact with alkalis and acids which will destroy the product. Keep the product dry as moisture will hydrolyse the active ingredient.

Pouring or allowing the product to free fall or to be conveyed through chutes or pipes can generate electrostatic sparks, potentially causing ignition of any flammable materials which may come in contact with the material. Under severe dusting conditions, this material may form explosive mixtures in air.

Incompatible materials: Avoid contact with strong oxidising agents.

Hazardous decomposition products: Hazardous fumes of hydrogen chloride (HCl), carbon monoxide (CO), carbon dioxide (CO₂), sulphur dioxide (SO₂), phosgene (Cl₂C=O) and unidentified organic compounds may be emitted when the product is heated excessively or burned

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:

Assessment of acute toxicity:

The product has not been tested. The data reported is for the main ingredients in the mixture.

Chlorsulfuron CAS No. 64902-72-3	
Acute toxicity:	
Acute Oral LD50 (rat-female)	5545 mg/kg
Acute Dermal LD50 (rabbit):	3400 mg/kg
Acute Inhalation LC50 - 4 h (rat)	> 5.39 mg/l
Skin irritation/ corrosion	No data available
Eye damage / irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available

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Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

Chlorsulfuron CAS No. 64902-72-3	
Toxicity	
Birds Acute oral LD50 Dietary LC50 8 days	31 mg/kg Japanese quail; 152 mg/kg Bobwhite quail >5000 mg/kg diet Mallard ducks; 2225 mg/kg Bobwhite quail
Aquatic Toxicity Fish LC ₅₀ (96 hr) Aquatic Toxicity Daphnia LC ₅₀ (48 hr) Toxicity to algae – static test ErC50 (72h) Toxicity to bees LD ₅₀ (contact) Worms LC ₅₀	2378 mg/l Golden Orfe ; 211 mg/l, Rainbow trout 85 mg/l >100mg/l for green algae <i>P. subcapitata</i> Harmful to honeybees by direct contact, but no problems expected when exposure is avoided, that is, not sprayed into flowering crop or when used as a seed treatment. 10.7 mg/kg dry soil <i>E. foetida</i>
Persistence and degradability	Chlorsulfuron is slowly broken down in most soils (DT ₅₀ 14 to 168 days) and <i>N</i> - (2- chlorobenzene sulfonyl) carbamic acid was identified as a breakdown product. Mobility in sandy soils is expected to be high, but at lower pH and higher clay and organic content, the rate of leaching will be decreased. Chlorsulfuron will also be degraded in water
Bioaccumulation potential	No data available
Mobility in Soil	No data available
Result of PBT and vPvB assessment	No data available
Other adverse effects	Not determined

Sodium benzene sulfonate CAS No. 515-42-4	
Toxicity	
Aquatic Toxicity Fish Static LC ₅₀ (96 hr) Aquatic Toxicity Daphnia LC ₅₀ (48 hr) Toxicity to algae – static test EC ₅₀ (72h) Toxicity to bacteria static test EC20	No data available No data available No data available No data available
Persistence and degradability Biodegradability-aerobic 10 days	No data available
Bioaccumulation potential	No data available
Mobility in Soil	No data available
Result of PBT and vPvB assessment	No data available
Other adverse effects	No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

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Keep out of drains, sewers, ditches, and waterways. Open dumping or burning of this pesticide is prohibited.

Waste resulting from the use of this product cannot be re-used or reprocessed. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

Container:

Refer to container label for disposal information. Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned, or destroyed. Rinse empty container three times with a volume of water equal to at least one tenth of that of the container. Pour rinse water into spray tank. Dispose of as hazardous waste. not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider.

Follow all local/ regional/ national/ international regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number	3077
UN proper shipping name	Environmentally Hazardous Substance; Solid; N.O.S. (Chlorsulfuron 750 g/kg).
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

Relevant H statements (number and full text):

H315-Causes skin irritation

H319-Causes serious eye irritation

H335-May cause respiratory irritation

Aquatic Toxicity acute (Category 1): Very toxic to aquatic life

Aquatic Toxicity chronic (Category 1): Very toxic to aquatic life with long lasting effects

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Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.