

MATERIAL SAFETY DATA SHEET OF SULFOSULFURON TECHNICAL

Section 1: PRODUCT IDENTIFICATION & COMPANY

Common Name : **Sulfosulfuron**
CAS-No. : 141776-32-1
Manufacturer / Supplier : Bharat Rasayan Limited
1501, Vikram Tower, Rajendra Place,
New Delhi – 110008, INDIA
Emergency Phones : +91-11-43661120,1104 Fax 43661100
Relevant identified uses of the substance or mixture and uses advised against
Identified uses Herbicide use

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

Label elements labelling according Regulation (EC) No 1272/2008 Pictogram

Signal word Warning

Hazard statement(s)



H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.

P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances Formula : C₁₆H₁₈N₆O₇S₂

Molecular weight : 470.48 g/mol

CAS-No. : 141776-32-1

Index-No. : 616-109-00-7

Hazardous ingredients according to Regulation (EC) No 1272/2008

Classification: Aquatic Acute 1; Aquatic Chronic 1; H400, H410 M-Factor - Aquatic Acute: 10

Concentration: ≤ 100 %

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Special hazards arising from the substance or mixture : Carbon oxides, nitrogen oxides (NO_x),

Hydrogen chloride gas, Hydrogen fluoride

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information : No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Reference to other sections (*For disposal see section 13.*)

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Specific end uses: No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters: Components with workplace control parameters

Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good

laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- a) Appearance Form: powder Color: white
- b) Odour odorless
- d) pH 5 to 6 at 25 °C
- e) Melting point/freezing point 201.1 to 201.7 °C
- f) Vapour pressure: 3.1×10^{-5} mPa at 20 °C
- g) Relative density 1.5185 g/cm³ at 20 °C
- h) Water solubility 17.6 mg/l

SECTION 10: STABILITY AND REACTIVITY

Reactivity	:	No data available
Chemical stability	:	No data available
Possibility of hazardous reactions	:	No data available
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	No data available
Other decomposition products	:	No data available

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects acute toxicity

LDLO Oral - Rat - > 5,000 mg/kg (Sulfosulfuron)

LDLO Dermal - Rabbit - > 5,000 mg/kg (Sulfosulfuron)

Skin corrosion/irritation : Skin - rabbit - No skin irritation

Serious eye damage/eye irritation : Eyes - rabbit - No eye irritation

Respiratory or skin sensitization : May cause allergic skin reaction.

Germ cell mutagenicity : No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity : no data available

Specific target organ toxicity

Single exposure : no data available

Specific target organ toxicity

Repeated exposure : no data available

Aspiration hazard : no data available

Potential health effect

Inhalation Harmful if inhaled: May cause respiratory tract irritation

Ingestion Harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation

Eyes May cause eye irritation

Additional Information

RTECS: Not available

SECTION 12 ECOLOGICAL INFORMATION

Toxicity : Toxicity to fish LC50 - Cyprinodon variegatus (sheepshead minnow) - 0.1 mg/l - 96.0 h(Sulfosulfuron) Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - > 96 mg/l - 48 h(Sulfosulfuron)

Persistence and degradability : no data available

Bio accumulative potential : no data available

Mobility in soil : no data available

Results of PBT and vPvB assessment: no data available

Other adverse effects : Very toxic to aquatic life

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste treatment methods Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product as per local pollution control board guideline.

SECTION 14 : TRANSPORT INFORMATION

UN Number

ADR/RID: 3077

IMDG: 3077

IATA: 3077

UN proper shipping name:

ADR/RID: Environmentally Hazardous Substance, Solid, N.O.S. (sulfosulfuron)

IMDG: Environmentally Hazardous Substance, Solid, N.O.S. (Sulfosulfuron)

IATA: Environmentally Hazardous Substance, Solid, N.O.S. (Sulfosulfuron)

Transport hazard class (es) : ADR/RID: 9 IMDG: 9 IATA: 9

Packaging group: ADR/RID: III IMDG: III IATA: III

Environmental hazards: ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

Further information: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packaging's and combination Packaging containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

SECTION 15: REGULATORY INFORMATION

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

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

No data available

Chemical Safety Assessment: No data available

SECTION 16: OTHER INFORMATION

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