

SAFETY DATA SHEET

Section 1 - Product and company identification

PRODUCT: **BLANKET HERBICIDE**

OTHER MEANS OF IDENTIFICATION:

Synonyms

Sulfentrazone

N-[2,4-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl] methanesulfonamide

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Recommended Use: Herbicide

Restrictions on Use: Use as recommended by the label

COMPANY IDENTIFICATION:

Tenkoz, Inc.

1725 Windward Concourse, Suite 410

Alpharetta, GA 30005

EMERGENCY PHONE NUMBER

For leak, fire, spill or accident emergencies, call:

1-800-424-9300 (CHEMTREC)

Section 2 - Hazards Identification

WARNING

Very toxic to aquatic life. (H400)



ENVIRONMENTAL HAZARDS

Hazardous to the Aquatic Environment – Short-Term (Acute): Category 1

PRECAUTIONARY STATEMENTS

Avoid release to the environment not in accordance with the product label (P273)

Collect spillage (P391)

Dispose of contents / containers in accordance with local, State and Federal regulations. Refer to the product label for specific disposal instructions. (P501)

Section 3 - Composition/Information on Ingredient

Sulfentrazone (CAS#122836-35-5)	39.6%
Inert ingredients,	60.4%

Section 4 - First Aid Measures

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison center or doctor. Do not give anything by mouth to an unconscious person.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

NOTES TO MEDICAL DOCTOR:

This product has low oral and dermal toxicity. There is no specific antidote. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

Section 5 - Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA:

Foam, CO₂ or dry chemical. Soft stream water fog only if necessary. Contain all runoff.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Slightly combustible. This material may support combustion at elevated temperatures.

FIRE FIGHTING PROCEDURES:

Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTION, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area.

ENVIRONMENTAL PRECAUTIONS:

Keep material out of lakes, streams, ponds and sewer drains. Large spills should be covered to prevent dispersal. Prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label contents for disposal.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

To clean and neutralize spill area, tools, and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Dispose of drummed waste according to the method outlined in Section 13, "Disposal Considerations".

Section 7 - Handling and Storage

HANDLING:

Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

STORAGE:

Store in original containers only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste area.

Section 8 - Exposure Controls / PPE

CONTROL PARAMETERS

No additional information available.

ENGINEERING CONTROLS

Handle in well ventilated areas, generally natural ventilation is adequate.

PERSONAL PROTECTIVE EQUIPMENT

General Information: If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

Respiratory protection: For splash, mist or spray exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides. Respirator use and selection must be based on airborne concentrations.

Eye/face protection: For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

Hand protection: Protective gloves

Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before reuse. Launder work clothing separately from regular household laundry.

Section 9 - Physical/Chemical Properties

Odor:	No pungent smell
Appearance:	Off-white liquid
Boiling Point/Boiling Range:	No data available
Melting Point/Freezing Point:	No data available

Flammability:	No data available
Lower and upper explosion limit/flammability limit:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Density:	1.2-1.3 g/cm ³
pH:	5.61 at 20°C
Viscosity:	173.4-461.9 mPa·s at 20±0.2°C 168.2-450.6 mPa·s at 40±0.2°C
Solubility:	No data available
Partition coefficient:	No data available
Vapor pressure:	No data available
Flash Point:	No data available
Explosibility:	Non-explosive
Combustibility:	Non-combustible
Corrosivity:	Non-corrosive
Particle characteristics:	No data available

Section 10 - Stability and Reactivity

REACTIVITY

None under normal use conditions.

STABILITY:

Stable.

POSSIBILITY OF HAZARDOUS REACTIONS

None under normal processing.

CONDITIONS TO AVOID

Excessive heat, fire.

INCOMPATIBLE MATERIALS:

Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, hydrogen chloride, hydrogen fluoride, etc.

Section 11 - Toxicological Information

ACUTE TOXICITY:

Oral LD ₅₀ (rat):	> 2,000 mg/kg body weight
Dermal LD ₅₀ (rat):	> 2,000 mg/kg body weight
Inhalation LC ₅₀ (rat):	> 5.434 mg/L
Eye Irritation (rabbit):	Not Irritating
Skin Irritation (rabbit):	Not Irritating
Sensitization (guinea pig):	Not a skin sensitizer

CHRONIC EFFECTS FROM OVEREXPOSURE:

No data available for the formulation. Sulfentrazone was not carcinogenic in lifetime feeding studies with laboratory animals, nor was it found to be mutagenic in a battery of tests. In a reproduction study, sulfentrazone produced adverse effects on the growth and survival of the offspring, decreased male fertility and oligospermia at 25 mg/kg/day, and 35 mg/kg/day. Sulfentrazone was found to be fetotoxic in oral and dermal developmental toxicity studies; the fetal NOELS were 10 mg/kg/day and 100 mg/kg/day, respectively. At labeled use rates and practices of mixing and applying, expected exposure to farm workers is at least one hundred times lower than the doses that produced effects in laboratory animals. At labeled use rates and practices of mixing and applying, expected exposure to farm workers is at least one hundred times lower than the doses that produced effects in laboratory animals.

CARCINOGENICITY:

NTP:	Not listed
EPA:	Not likely to be carcinogenic to humans
IARC:	Not listed
OSHA:	Not listed
OTHER:	(ACGIH) Not listed

Section 12 - Ecological Information

The data presented below are for the active ingredient.

Birds Acute oral LD₅₀ Mallard Ducks: >2,250 mg/kg

Dietary LC₅₀ (8 d) Ducks and Quail: >5,620 mg/kg

Fish LC₅₀ (96 h) Bluegill Sunfish: 93.8 mg/l

Rainbow trout: >130 mg/l

Daphnia LC₅₀ (48 h): 60.4 mg/l

Algae EC₅₀: 31.0 µg/l

Blue-Green Algae EC₅₀: 32.9 µg/l

Bees LD₅₀: >25 µg/bee.

Worms NOEC: 3,726 mg/kg in soil

PERSISTENCE AND DEGRADABILITY

Does not readily hydrolyze. Not readily biodegradable.

BIOACCUMULATIVE POTENTIAL

The substance does not have a potential for bioconcentration.

MOBILITY IN SOIL

This chemical is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Section 13 - Disposal Considerations

DISPOSAL METHOD:

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

Nonrefillable container and refillable containers. Refer to the product label for specific container disposal instructions.

Section 14 - Transport Information

DOT

Not regulated

IMDG

UN No.: 3082

Packaging Group: III

Hazard Class: 9 Marine

Pollutant: Yes

Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains sulfentrazone), 9, PG III, Marine Pollutant

ADR

UN No.: 3082

Packaging Group: III

Hazard Class: 9

Marine Pollutant: Yes

Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains sulfentrazone), 9, PG III, Marine Pollutant

IATA

UN No.: 3082

Packaging Group: III

Hazard Class: 9

Marine Pollutant: Yes

Description: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains sulfentrazone), 9, PG III, Marine Pollutant

Section 15 - Regulatory Information

FIFRA

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

EPA REGISTRATION NUMBER: 81134-2-55467

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMAN AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before use.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to marine/estuarine invertebrate. Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high-water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

SARA TITLE III – SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES

Not listed

SARA TITLE III – SECTION 311/312 HAZARDOUS CATEGORIES

Immediate (acute)

SARA TITLE III – SECTION 312 THRESHOLD PLANNING QUANTITY

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA TITLE III – SECTION 313 REPORTABLE INGREDIENTS

None

CERLA REPORTABLE QUANTITY (RQ)

Not listed

CALIFORNIA PROP 65 STATUS

This product does not contain any chemicals known to the state of California to cause cancer or reproductive harm.

CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws.

Section 16 - Additional Information

SDS Creation Date: June 8, 2022

SDS Revision Date: October 7, 2024

Reason for Revisions: New distributor product

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.