

MAXUNITECH NORTH AMERICA, INC.

Section 1. Product and Company Identification

PRODUCT:

Sulfentrazone + Carfentrazone-ethyl SE Herbicide

OTHER MEANS OF IDENTIFICATION

IUPAC name:

CARFENTRAZONE-ETHYL: Benzenepropanoic acid, .alpha., 2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluoro-, ethyl ester

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

Active Ingredients: Carfentrazone-ethyl, Sulfentrazone

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Recommended Use: Herbicide

Restrictions on Use: Use as recommended by the label

COMPANY IDENTIFICATION:

Maxunitech North America, Inc.

Add: 27 Goleta Point Drive, Corona Del Mar, CA 92625

Tel: 571-280-57983

EMERGENCY PHONE NUMBER

National Pesticide Information Center: 1-800-858-7378 (Monday through Friday, 8:00 AM to 12 PM Pacific Standard Time)

Poison Control Center: 1-800-222-1222 (In the event of a medical emergency)

Section 2 - Hazards Identification

WARNING

Very toxic to aquatic life with long lasting effects. (H400+H410)



ENVIRONMENTAL HAZARDS

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

Hazardous to the Aquatic environment – Long-Term (Chronic): 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)	31.77%
Carfentrazone-ethyl (CAS#128639-02-1)	3.53%
Inert ingredients	64.70%

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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 the poison control center or doctor. Never give anything by mouth to an unconscious person.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Treat symptomatically. Treatment is otherwise controlled by removal from exposure followed by symptomatic and supportive care.

Section 5 - Fire Fighting Measures

SUITABLE EXTINGUISHING MEDIA:

Foam, CO₂, dry powder or water spray.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

May support combustion at elevated temperatures. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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. Remove nearby ignition sources (such as smoking, matches or open flames). Wear protective clothing and respiratory protection. Keep unprotected persons and animals out of the area.

ENVIRONMENTAL PRECAUTIONS:

Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with a noncombustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste 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 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".

RELEASE NOTES:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

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Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING:

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

CONDITIONS FOR SAFE STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool dry place and avoid excess heat. Do not store below 32F degrees.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS

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

PERSONAL PROTECTIVE EQUIPMENT

Applicators, mixers, loaders and other pesticide handlers must wear long-sleeved shirt and long pants, chemical-resistant gloves, and shoes plus socks.

HYGIENE MEASURES

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

REQUIREMENTS CONCERNING SPECIAL TRAINING

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

Section 9 - Physical/Chemical Properties

Odor:	Almond smell
Appearance:	Light gray 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:	1.2026 g/cm ³ at 20°C
pH:	6.37 at 19.8°C (1% dispersion)
Kinematic Viscosity:	9943Pa s at 1.0 rpm at 20°C 3258 mPa s at 4.0 rpm at 40°C
Solubility:	No data available
Partition coefficient	No data available

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Section 9 - Physical/Chemical Properties (CONT.)

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.

POSSIBILITY OF HAZARDOUS REACTIONS

Do not mix or allow coming into contact with oxidizing agents. Hazardous chemical reaction may occur.

CONDITIONS TO AVOID:

Excessive heat, fire and sparks.

STABILITY:

Stable under normal conditions.

POLYMERIZATION:

Will not occur.

INCOMPATIBLE MATERIALS:

It is compatible with typical reducing agents but incompatible with typical oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS:

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

Section 11 - Toxicological Information

ORAL

LD₅₀: ≥2,000 mg/kg(rat)

DERMAL

LD₅₀: > 5,000 mg/kg (rat)

INHALATION

LC₅₀: > 5.523 mg/L (4 h, rat)

EYE EFFECTS:

Not an irritant (rabbit)

SKIN EFFECTS:

Not an irritant (rabbit)

SKIN SENSITIZATION:

Not a sensitizer (guinea pig)

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Section 11 - Toxicological Information (CONT.)

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

No data available for the formulation. Data presented below are based on the active ingredient.

Sulfentrazone:

BIRDS

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

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

FISH

LC₅₀ (96 h) Bluegill sunfish: 93.8

LC₅₀ Rainbow trout: > 130 mg/L

DAPHNIA

LC₅₀ (48 h): 60.4 mg/L

ALGAE

Algae EC₅₀: 31.0 ug/L

Blue-green algae EC₅₀: 32.9 µg/L

BEEES

LD₅₀: > 25 µg/bee

WORMS

NOEC: 3,726 mg/kg in soil.

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Section 12 - Ecological Information (CONT.)

Carfentrazone-ethyl:

BIRDS

LD₅₀ Bobwhite quail: > 2,250 mg/kg

LC₅₀ Mallard duck: > 5,620 ppm

FISH

LC₅₀ (96 h) Depending on species: 1.6-43 mg/L

DAPHNIA

EC₅₀ (48 h): 9.8 mg/L

ALGAE

EC₅₀ Depending on species: 5.7-17 ug/L

OTHER AQUATIC SPP.

EC₅₀ (96 h) Eastern Oysters: 2.05 ppm

EC₅₀ (96 h) Mysid Shrimps: 1.16 ppm

EC₅₀ (14 d) Duckweed: 0.0057 mg/L

BEEES

LD₅₀: > 200 µg/bee (contact)

LD₅₀: >35 µg/bee (oral)

WORMS

LC₅₀: > 820 mg/kg soil

PERSISTENCE AND DEGRADABILITY

Sulfentrazone: Persistent. Does not readily hydrolyze. Not readily biodegradable.

Carfentrazone-ethyl: Non-persistent. Readily hydrolyzed. Not readily biodegradable.

BIOACCUMULATION

Sulfentrazone, Carfentrazone-ethyl : The substance does not have a potential for bioconcentration.

MOBILITY

Residues of this chemical have properties and characteristics associated with chemicals detected in ground water. Residues of this chemical may leach into ground water if the chemical is used in areas where soils are permeable, particularly where the water table is shallow.

Section 13 - Disposal Considerations

DISPOSAL METHOD:

Pesticide wastes are toxic. 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 of the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:

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

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Section 14 - Transport Information

UN No.: 3082

Packaging Group: III

Hazard Class: 9

Marine Pollutant: Yes

Description: UN3082, Environmental hazardous substance, liquid, N.O.S.
(sulfentrazone, carfentrazone-ethyl), 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:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMAN AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to algae, marine/estuarine invertebrates, and moderately toxic to fish. 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 wash waters 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.

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Section 15 - Regulatory Information (CONT.)

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

MSDS Creation Date: May 6, 2018

Revision #3 Date: January 8, 2021

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.