

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product Name: MAXIMUS SE

(Terbuthylazine 125g/l + Mesotrione 37.5g/l + Metolachlor 375g/l SC)

Chemical Name: **IUPAC:** 2-(4-mesyloxy-2-nitrobenzoyloxy)cyclohexane-1,3-dione;
2-chloro-6'-ethyl-N-(2-methoxy-1-methylethyl)aceto-o-toluidide;

*N*²-*tert*-butyl-6-chloro-*N*⁴-ethyl-1,3,5-triazine-2,4-diamine

Product Use: Commercial Herbicides

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Composition	Percent	CAS RN
Metolachlor	375g/l	51218-45-2
Terbuthylazine	125g/l	5915-41-3
Mesotrione	37.5g/l	104206-82-8

SECTION 3 HAZARDS IDENTIFICATION

Health and Environmental

Harmful if inhaled. Causes mild eye irritation.

Hazardous Decomposition Products

None known.

Physical Properties

Appearance: Light green liquid

Odor: Aromatic

Unusual Fire, Explosion and Reactivity Hazards

Flammable hydrogen gas may be formed on contact with incompatible metals.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

SECTION 4 FIRST AID MEASURES

Ingestion: Call a poison control center or doctor immediately for treatment

advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact: 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.

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Notes to Physician:

There is no specific antidote if this product is ingested.

Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Unusual Fire, Explosion and Reactivity Hazards

Flammable hydrogen gas may be formed on contact with incompatible metals. See "Conditions to Avoid", Section 10.

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO₂ extinguishing media. Wear full protective clothing and self-contained breathing apparatus.

Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

SECTION 6 ACCIDENTAL RELEASE MEASURES

SPILLS AND DISPOSAL

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with

additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

SECTION 7 HANDLING AND STORAGE

Spray solutions of this product should be mixed, stored and applied using only plastic, plastic-lined steel, stainless steel or fiberglass containers. Concentrate should not be stored in mild steel, cast iron or aluminum containers.

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use chemical splash goggles.

Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

SECTION 9 PHYSICAL PROPERTIES

Appearance: light to grey green liquid

pH: 2-7

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Concentrate should not be stored in mild steel, cast iron or aluminum containers.

Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.

SECTION 11 TOXICOLOGICAL INFORMATION

Ingestion: Oral (LD50 Female Rat) : > 5000 mg/kg body weight

Dermal: Dermal (LD50 Rabbit) : > 5050 mg/kg body weight



Inhalation: Inhalation (LC50 Rat) > 2.63 mg/l air - 4 hours

Eye Contact: Mildly Irritating (Rabbit)

Skin Contact: Non-Irritating (Rabbit)

Skin Sensitization: Not a Sensitizer (Guinea Pig)

SECTION 12 ECOLOGICAL INFORMATION

Terbutylazine :

Fish (Rainbow Trout) 96-hour LC50 4.5 ppm

Green Algae 5-day EC50 49 ppb

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 6.9 ppm

Bird (Bobwhite Quail) 12-day LD50 940 mg/kg

Metolachlor:

Fish (Rainbow Trout) 96-hour LC50 11.9 ppm

Green Algae 5-day EC50 0.008 ppm

Bird (Bobwhite Quail) LD50 Oral > 2510 mg/kg

Invertebrate (Water Flea) 48-hour EC50 26 ppm

Mesotrione :

Fish (Rainbow Trout) 96-hour LC50 > 114 ppm

Green Algae 5-day EC50 1.9 ppm

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 840 ppm

Bird (Bobwhite Quail) 14-day LD50 > 2000 mg/kg

SECTION 13 DISPOSAL CONSIDERATIONS

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

SECTION 14 TRANSPORTATION INFORMATION

DOT Classification

Ground Transport - NAFTA

Not regulated.

Comments

Water Transport - International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
(Metolachlor), Marine Pollutant

Hazard Class: Class 9



Identification Number: UN 3082

Packing Group: PG III

SECTION 15 Regulatory Information

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute: No

Fire: No

Reactivity: No

Pressure: No.

SECTION 16 Other Information

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for use with other materials or in processes other than those specifically described herein.

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