

FORMER 250SL™

MATERIAL SAFETY DATA SHEET

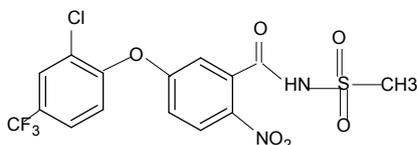
SECTION 1 Chemical product and Company identification

Product Name: Former 250SL™ (fomesafen)

Chemical name: 5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-nitrobenzamide, sodium salt

Formula: C₁₅H₁₀ClF₃N₂O₆S

Molecular structure:



Molecular weight: 438.76

Product Use: Commercial Herbicide

Supplier: SINERIA HOLLAND BV

Randwycksingel 20-A015

6229 EE Maastricht The Netherlands

www.sineria.com

SECTION 2 Composition/Information on Ingredients

<u>Product Name</u>	<u>Content (25%)</u>	<u>CAS No.</u>
Fomesafen	25%	72178-02-0

SECTION 3 Hazards Identification

Classification of risk: WHO III; EPA II

Potential health effects: Causes eye and skin irritation. It is toxicity if swallowed or absorbed through skin. Irritate to eyes and skin. May causes skin sensitization if contact skin.



SECTION 4 First Aid Measures

- Have the product container, label or Material Safety Data Sheet with you when calling a poison control center, doctor or when going for treatment.

If swallowed: 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.

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

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

If inhaled: Move person to fresh air. If person is not breathing, call an ambulance and 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. Probable mucosal damage may contraindicate gastric lavage.

SECTION 5 Fire Fighting Measures

Suitable extinguish media: Dry chemical, carbon dioxide, foam and water.

Flash Point: > 100°C

Unusual Fire, Explosion and Reactivity Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire: Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential 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

General and disposal: Use proper protective equipment to minimize personal exposure. Take all necessary action to prevent and to remedy the effects of the spill. Ensure that the disposal is in compliance with regulations.

Land spill or leaks: 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. 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.

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SECTION 7 Handling and storage

Handling: Avoid contact with eyes or clothing. Do not use near heat or open fire.

Users Should: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Storage: Store in a cool and dry place out of reach of children. Keep product in the original container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

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. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

SECTION 9 Physical & Chemical properties

Appearance: Brown liquid (micro-emulsion)

Boiling Point: 100.6°C

Flash point: not available

Specific Gravity/Density: 1.125 g/ml

pH: 6.0-9.0

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SECTION 10 Stability & Reactivity

Stability: Stable under normal condition

Hazardous Polymerization: Will not occur

Conditions to Avoid: None known.

Materials to Avoid: Oxidizing agents.

Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

SECTION 11 Toxicological Information

Ingestion: Slightly Toxic; Oral LD₅₀ (Rat) : > 3863 mg/kg body weight

Dermal: Slightly Toxic; Dermal LD₅₀ (Rat) : > 2000 mg/kg body weight

Inhalation: Practically Non-Toxic; Inhalation LC₅₀ (Rat) : > 2.1 mg/l air - 4 hours

Eye Contact: Moderately Irritating (Rabbit)

Skin Contact: Moderately Irritating (Rabbit)

Skin Sensitization: It is a moderate skin sensitizer in animal tests.

Reproductive/Developmental Effects - Fomesafen Sodium Salt: Non-genotoxic in vitro and in vivo assays.

Chronic/Sub-chronic Toxicity Studies - Fomesafen Sodium Salt: No evidence of neurotoxicity from sub-acute or long-term studies in mammals.

Carcinogenicity-Fomesafen Sodium Salt: Increased rates of malignant liver tumors in a 2-yr mouse feeding study (1000 ppm), but the results are not considered relevant to man.

SECTION 12 Ecological Information

Fomesafen Sodium Salt: Toxic to fish

- Rainbow Trout 96-hour LC₅₀ 170 mg/L
- Bluegill Sunfish 96-hour LC₅₀ 1,507 mg/L
- Mallard Oral LD₅₀ >5,000 mg/kg
- Mallard 5-day Dietary LC₅₀ >20,000 mg/kg
- *Daphnia magna* 48-hour EC₅₀ 0.33 g/L
- Green Algae EC₅₀ 170 ug/L
- Bobwhite Quail 5-day LC₅₀ >20,000 mg/kg

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[The above Eco-toxicity Data are based on Fomesafen Technical, not Fomesafen Sodium Salt]

Environmental Fate of Fomesafen Sodium Salt: Persistent in soil. Stable in water. Highly mobile in soil. Will leach. Sinks in water (after 24 h).

SECTION 13 Disposal Considerations

Do not contaminate water, food, or feed by disposal. Empty containers should be triple rinsed into the spray tank during operation. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incinerating, or if allowed, by burning. If burned, stay out of smoke.

SECTION 14 Transport Information

- It has not been listed by IMO as a dangerous material.

SECTION 15 Regulatory Information

Risk phrases: Harmful if Swallowed

Safety phrases: Keep out of reach of children

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 with other materials or in processes other than those specifically described herein.

Sineria makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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