

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>COMPANY ADDRESS:</b>	<b>EMERGENCY TELEPHONE NUMBERS:</b>
RedEagle International LLC	(800) 424-9300 (CHEMTREC, transportation and spills)
5143 S. Lakeland Drive - Suite 3	(800) 222-1222 American Association of Poison Control Centers
Lakeland, FL 33813	
<b>PRODUCT NAME:</b>	FOMESAFEN SODIUM SC
<b>CHEMICAL NAME:</b>	5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-nitrobenzamide
<b>PRODUCT USE:</b>	Herbicide
<b>PRODUCT CODE:</b>	EPA Reg. No. 85678-41

## SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Light yellow to amber liquid with moderate odor.

**HEALTH HAZARDS: DANGER - PELIGRO.**

Harmful if swallowed, in contact with skin, or inhaled.

Causes irreversible eye damage and mild to severe skin irritation.

**PHYSICAL HAZARDS:** May release toxic fumes if burned.

**ENVIRONMENTAL HAZARDS:** May be toxic to non-target terrestrial and aquatic plant species. Avoid spray drift and contaminating water sources.



## SECTION 3 – COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS No.
Sodium Salt of Fomesafen	22.1	108731-70-0
Inert Ingredients	77.9	n/a

## SECTION 4 - FIRST AID MEASURES

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

**IF ON SKIN OR CLOTHING:** 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.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control center or doctor. Do not give any liquid to a person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** 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.

**NOTE TO PHYSICIAN:** If ingested, probable mucosal damage may contraindicate the use of gastric lavage. No specific antidote. Treat symptomatically.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

### SECTION 5 - FIRE FIGHTING MEASURES

#### NFPA (National Fire Protection Association) HAZARD RATINGS

HEALTH	FLAMMABILITY	REACTIVITY
3	0	1

4=Severe    3=Serious    2=Moderate    1=Slight    0=Minimal

**FLASHPOINT:** > 100°C (>212° F)

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material. Minimize use of water to prevent environmental contamination.

**FIRE AND EXPLOSION HAZARD:** Can release irritating and toxic gases such as hydrogen chloride, hydrogen fluoride, nitrogen oxide in a fire.

**FIRE FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Minimize use of water to prevent environmental contamination.

**FIRE FIGHTING EQUIPMENT:** Full firefighting turn-out gear (Bunker gear) including self-contained breathing apparatus with full face piece.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

**IN CASE OF SPILLS OR LEAKS:** Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of soil, surface water, or ground water. Clean up spills immediately. Observe precautions in Section 8 of this document. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills with sand, vermiculite, or other absorbent inert ingredients. Place material in a container for proper disposal.

**LARGE SPILL:** Dike spill using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse or disposal. Allow absorbed material to solidify and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent for disposal. Minimize use of water to prevent environmental contamination.

**CAUTION:** Minimize use of water to prevent runoff into municipal sewers or other open bodies of water and minimize environmental contamination. Be sure to isolate any contaminated water. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

### SECTION 7 - HANDLING AND STORAGE

#### **KEEP OUT OF REACH OF CHILDREN!**

**HANDLING:** Use only in a well-ventilated area. Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing if pesticide gets inside clothing. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not reuse container.

**STORAGE:** Do not store below freezing (32°F). Keep pesticide in original container. Keep container tightly closed when not in use. Store in a locked storage area. Avoid cross contamination with other pesticides or fertilizers during handling and storage. Store in a cool, dry place. Do not contaminate water, feed, or food by storage and disposal. Do not store diluted spray.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Proper ventilation is required to minimize exposure to airborne contaminants.

**PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION:** Protective eyewear or respirator if vapors cause eye discomfort.

**SKIN PROTECTION:** Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves and shoes.

**RESPIRATOR:** Normally not required. If handling in an enclosed environment where vapors or mists may exceed acceptable levels, wear NIOSH approved air-purifying respirator approved for pesticides. For aerial applications, mixers and loaders handling more than 150 gallons per day must wear NIOSH approved respirator with any N, P, R, or HE filter.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** 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 PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Light yellow to amber liquid with moderate odor
<b>Odor:</b>	Pungent
<b>pH:</b>	6.0 to 7.0
<b>Melting Point:</b>	Not applicable
<b>Boiling Point:</b>	Not available
<b>Flash Point:</b>	> 100 <sup>o</sup> C (>212 <sup>o</sup> F)
<b>Evaporation Rate:</b>	No data
<b>Flammability:</b>	No data
<b>Flammability Limits:</b>	Not applicable
<b>Vapor Pressure:</b>	No data
<b>Vapor Density:</b>	No data
<b>Density:</b>	1.12 – 1.16 g/ml (9.35 -9.68 lb/g) @ 26 <sup>o</sup> C *
<b>Solubility:</b>	Emulsifies
<b>Partition Coefficient:</b>	No data
<b>Auto-Ignition Temperature:</b>	No data
<b>Decomposition Temperature:</b>	No data
<b>Viscosity:</b>	267.9 cSt (20 <sup>o</sup> C); 83.9 cSt (40 <sup>o</sup> C);

\* Listed density is an approximate value and does not necessarily represent that of a specific batch.

**SECTION 10 - STABILITY AND REACTIVITY**

<b>PRODUCT REACTIVITY:</b>	Non-reactive
<b>CHEMICAL STABILITY:</b>	Stable under recommended storage conditions.
<b>HAZARDOUS REACTION/POLYMERIZATION:</b>	Product will not undergo polymerization.
<b>CONDITIONS TO AVOID:</b>	Do not allow to freeze and avoid excessive heat.
<b>INCOMPATIBLE MATERIALS:</b>	Oxidizing materials.
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	Oxides of carbon and nitrogen. Hydrogen chloride and hydrogen fluoride.

**SECTION 11 - TOXICOLOGICAL INFORMATION****ACUTE TOXICITY:**

Oral LD <sub>50</sub> (rat):	> 3,000 mg/kg
Dermal LD <sub>50</sub> (rat):	> 2,000 mg/kg
Inhalation LC <sub>50</sub> (rat):	> 2.1 mg/l (4 hour)
Eye irritation (rabbit):	Corrosive, cause irreversible eye damage
Skin irritation (rabbit):	Moderate
Sensitization (guinea pig):	Potential sensitizer

**CARCINOGEN STATUS:** Not listed.**TERATOGENICITY:** Limited evidence in animal studies.**MUTAGENICITY:** No evidence of mutagenic effects during in vivo or in vitro studies.**SECTION 12 - ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff might occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate. This compound is known to leach through soil into groundwater under certain conditions as a result of label use. Ground water contamination may result from using this chemical in areas where soils are permeable, especially where groundwater tables are shallow.

**FATE:** Fomesafen is moderately persistent with a half-life of 100 to 365 days depending on soil type and moisture levels. It is mobile in soil and groundwater contamination can occur where water tables are shallow and soils are conducive to leaching. This likelihood increases with the use of irrigation.

**FISH TOXICITY:** (fomesafen)96 hour LC<sub>50</sub>, Rainbow trout – 680 ppm96 hour LC<sub>50</sub>, Bluegill – 1,500 ppm**AVIAN TOXICITY:** (fomesafen)Dietary LD<sub>50</sub>, Bobwhite quail - > 5,000 mg/kgDietary LD<sub>50</sub>, Mallard duck - > 5,000 mg/kg**BEE TOXICITY:** > 100ug/bee**SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE DISPOSAL:** Excess pesticide spray, mixture, or rinsate resulting from the use of this product can be disposed of onsite according to label instructions or at an approved waste disposal facility.

Improper disposal is a violation of Federal Law.

**CONTAINER DISPOSAL:** Non-refillable container: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Refer to the product label for additional and complete Container Handling instructions.

<b>SECTION 14 - TRANSPORT INFORMATION</b>
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**DOT:** Not regulated  
**ICAO:** Not regulated  
**IATA:** Not regulated  
**IMDG/IMO:** Not regulated

<b>SECTION 15 - REGULATORY INFORMATION</b>
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**CERCLA REPORTABLE QUANTITY:** n/a  
**SARA TITLE III**  
**311/312 HAZARD CATEGORY:** Immediate health (acute), Delayed health (chronic)  
**313 REPORTABLE INGREDIENTS:** Fomesafen salt  
**CALIFORNIA PROP 65: WARNING:** Not listed.  
**TSCA:** Exempted - solely for FIFRA regulated use.

<b>SECTION 16 - OTHER INFORMATION</b>
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**NFPA (National Fire Protection Association) HAZARD RATINGS**

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. This data sheet is not a guarantee of safety. Users are responsible for insuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

REVISED DATE: June 2016