

1: IDENTIFICATION

Chemical Name	Fomesafen: 5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-Nitrobenzamide Quizalofop: (2R)-2-[4-[(6-Chloro-2-quinoxalinyloxy)phenoxy]propanoic acid ethyl ester		
Synonyms	Fomesafen 12% + Quizalofop 3% SC	Trade Name	FOMEXA
Uses	Herbicide	Molecular Formula	C ₁₅ H ₁₀ ClF ₃ N ₂ O ₆ S + C ₁₉ H ₁₇ ClN ₂ O ₄
Manufacturer/Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Fomesafen	72178-02-0	12.0%
Quizalofop	100646-51-3	3.0%
Inert Ingredients	-	85%

3: HAZARD IDENTIFICATION

Health Hazards: DANGER

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.

4: FIRST AID MEASURES

General: Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation: Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. Treat respiratory difficulty with artificial respiration and oxygen. Immediately seek medical attention if symptoms are severe or persist

Ingestion: 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. Call a poison control center or doctor immediately 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.

Eye Contact: 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.

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.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, Foam, dry chemical, water fog.

Hazardous Thermal (de)composition: In case of fire, it can release irritating and toxic gases such as hydrogen chloride, hydrogen fluoride, nitrogen oxide.

Special Procedures: 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.

Protection of Fire Fighters: Full firefighting turn-out gear (Bunker gear) including self-contained breathing apparatus with full face piece.

NFPA (National Fire Protection Association) HAZARD RATINGS

HEALTH	FLAMMABILITY	REACTIVITY
3	0	1

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

Flashpoint: > 1000C (>2120 F)

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental Precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods for Cleaning up: 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. Notify the authorities if product enters.

7: HANDLING & STORAGE

Handling: KEEP OUT OF REACH OF CHILDREN 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 (0°C). 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.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: 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.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist. Elbow-length PVC gloves and face shield. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Use NIOSH/MSHA approved respiratory protection equipment with dust/mist cartridge where airborne concentrations are expected to exceed exposure limits.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Skin Protection: Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves and shoes.

Eye Protection: Protective eyewear or respirator if vapors cause eye discomfort.

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.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Light yellow to amber liquid **Odour:** Pungent **pH:** 4.0 to 8.0 **Melting Point:** Not applicable **Boiling Point:** Not available
Flash Point: > 1000 C (>2120 F) **Density:** 1.12 – 1.16 g/ml (9.35 -9.68 lb/gl) @ 26°C **Solubility:** Emulsifies

10: STABILITY & REACTIVITY

Stability: Stable under recommended storage conditions.

Reactivity: Non-reactive

Hazardous decomposition products: Oxides of carbon and nitrogen. Hydrogen chloride and hydrogen fluoride.

Incompatible Materials: Oxidizing materials.

Conditions to avoid: Do not allow to freeze and avoid excessive heat.

11: TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: Oral LD50 (rat): > 3,000 mg/kg

Acute Dermal Toxicity: Dermal LD50 (rat): > 2,000 mg/kg

Eye irritation (rabbit): Corrosive, cause irreversible eye damage

Acute Inhalation: Inhalation LC50 (rat): > 2.1 mg/l (4 hour)

Skin irritation (rabbit): Moderate

Teratogenicity: Limited evidence in animal studies.

Sensitization (guinea pig): Potential sensitizer

Carcinogen Status: Not listed.

Mutagenicity: No evidence of mutagenic effects during in vivo or in vitro studies.

12: ECOLOGICAL INFORMATION

Toxicity Fish Toxicity: 96 hour LC50, Rainbow trout – 680 ppm; 96 hour LC50, Bluegill – 1,500 ppm

Avian Toxicity: Dietary LD50, Bobwhite quail - > 5,000 mg/kg; Dietary LD50, Mallard duck - > 5,000 mg/kg

Bee Toxicity: > 100ug/bee

Environment 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+Quisalofop 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.

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: 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 Procedures: 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 1/4 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.

14: TRANSPORT INFORMATION

DOT: Not regulated

IATA: Not regulated

ICAO: Not regulated

IMDG/IMO: Not regulated

15: REGULATORY INFORMATION

Cercla Reportable Quantity: N/A

311/312 Hazard Category: Immediate Health (Acute), Delayed Health (Chronic)

313 Reportable Ingredients: Fomesafen Salt

16: OTHER INFORMATION

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