

MATERIAL SAFETY DATA SHEET

SECTION 1-CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : Fomesafen 12% + Quizalofop Ethyl 3% SC
USER : Herbicide
CHEMICAL NAME : **Fomesafen** : 5-[2-chloro-4-(trifluoromethyl)phenoxy]-N-(methylsulfonyl)-2-Nitrobenzamide
: **Quizalofop ethyl** : Ethyl (2R)-2-[4-(6-Chloroquinoxalin-2-yl)oxyphenoxy]propanoate
CHEMICAL FORMULA : **Fomesafen** : C₁₅H₁₀ClF₃N₂O₆S
: **Quizalofop ethyl** : C₁₉H₁₇ClN₂O₄
COMPANY : SAFEX CHEMICALS INDIA LTD.
ADDRESS : 4th & 5th Floor Block A, NDM-1 Netaji Subhash Place , New Delhi- 110034
TELEPHONE : **011 – 66105000/ 1800 102 3959**
WEBSITE : <https://safexchemicals.com>.
E-MAIL : info@safexchemicals.com

SECTION 2 - HAZARDS IDENTIFICATION

Hazard Classification:

Acute Oral Toxicity Category 5

Acute Dermal Toxicity Category 5

Acute Inhalation Toxicity Category 4

Skin Irritation Toxicity Category 3

Eye Irritation Toxicity Category 2B

Signal Word: Warning

Hazard Statement:

H303: May be harmful if swallowed

H313: May be harmful in contact with skin

H316: Causes mild skin irritation

H320: Causes mild eye irritation

H332: Harmful if inhaled

Precautionary Statement:

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P501: Dispose of contents/container in accordance with local regulations.

P273: Avoid release to the environment.

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SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS No.	% w/w
Fomesafen a.i.	72178-02-0	12
Quisalofof ethyl a.i.	100646-51-3	3
Formaldehyde solution (purity 37%)	50-00-0	0.2
Other Inert Ingredients	-----	84.8

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 doctor or an ambulance, then give artificial respiration. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: 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

Extinguishing media:

Suitable extinguishing media: Water, foam, dry chemicals or carbon dioxide (CO₂).

Extinguishing media which shall not be used for safety reasons: High volume water jet.

Special hazards arising from the substance or mixture:

Carbon dioxide, carbon monoxide, hydrogen chloride and oxides of nitrogen and sulfur are potential thermal decomposition products.

Advice for firefighters:

In the event of fire and/or explosion do not breathe fumes. Use self-contained breathing apparatus and protective clothing. Move the product away from fire if there is no risk. Use a water spray or fog nozzle to keep containers or surrounding area cool. Fight fire from upwind position. Contain run-off to prevent entry



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into water or drainage systems.

SECTION 6-ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear suitable protective clothing, shoes, gloves and goggles. Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. For fire-fighters, use self-contained breathing apparatus and protective clothing.

Environmental precautions:

Prevent spillage from entering the drainage systems or watercourses. Advise water authority if spillage has entered water course or drainage systems.

Methods and material for containment and cleaning up:

Carefully sweep up and collect the spilled material using an inert absorbent material (sand, vermiculite, or sawdust) and place in a closed container (drum) for disposal. Remove (large quantities) with vacuum truck. Do not raise dust. Wash affected area with water containing detergent.

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. Storage duration should be as per local country regulations.

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 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.



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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

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

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

SECTION 10- STABILITY AND REACTIVITY

PRODUCT REACTIVITY	:	Non-reactive if stored and handled as recommended
CHEMICAL STABILITY	:	Stable under recommended storage conditions.

HAZARDOUS REACTION/POLYMERIZATION: Product will not undergo polymerization.

CONDITIONS TO AVOID : Do not allow to freeze and avoid excessive heat.

INCOMPATIBLE MATERIALS : Oxidizing materials.

HAZARDOUS DECOMPOSITION : Oxides of carbon and nitrogen. Hydrogen chloride and hydrogen fluoride.

SECTION 11-TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD ₅₀ (rat)	:	> 2,000 mg/kg
Dermal LD ₅₀ (rat)	:	> 2,000 mg/kg

Internal

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Acute Oral LD 50 (Rat)	:	>2000 mg/kg
Acute Dermal LD50 (Rat)	:	>2000 mg/kg
Inhalation LC50 (rat)	:	> 2.1 mg/l (4 hour)
Eye irritation (rabbit)	:	Mild irritant
: Mild irritant	:	No sensitization effect
Skin irritation (rabbit)	:	Not carcinogenic
Sensitization (guinea pig)	:	No effects on reproduction
Carcinogenicity	:	Not mutagenic
Reproduction Toxicity	:	Not teratogenic
Mutagenicity	:	

:

Not mutagenic
Developmental Toxicity



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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.

FATE: Fomesafen+Quizalofop ethyl is moderately persistent with a half-life of 100 to 365 days depending on soil type and moisture levels.

FISH TOXICITY: (Fomesafen+Quizalofop ethyl)

96 hour LC₅₀, Rainbow trout - 680 ppm

96 hour LC₅₀, Bluegill - 1,500 ppm

AVIAN TOXICITY:

(Fomesafen+Quizalofop ethyl)

Dietary LD₅₀, Bobwhite quail: > 2,000 mg/kg

Dietary LD₅₀, Mallard duck: > 2,000 mg/kg

BEE TOXICITY: > 100 µg/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.

CONTAINER DISPOSAL: Non-refillable container: Do not reuse or refill this container. 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 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.

SECTION 14 - TRANSPORT INFORMATION

Land transport

ADR	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	Not known

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RID	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	Not known

Inland Waterway Transport

ADN	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	Not known

Transport in inland waterway vessel: Not evaluated

Sea Transport

IMDG	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	Not known

Air Transport

IATA/ICAO	Not classified as a dangerous good under transport regulations
UN number:	Not applicable
UN proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group:	Not applicable
Environmental hazards:	Not applicable
Special precautions for user	Not known

Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation	Not evaluated
Shipping approved	Not evaluated
Pollution name	Not evaluated
Pollution category	Not evaluated
Ship type	Not evaluated

SECTION 15-REGULATORY INFORMATION



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Safety, health and environmental regulations/legislation specific for the mixture

This chemical is a pesticide product registered by Central Insecticides Board and Registration Committee (CIB&RC) and is subject to certain labeling requirements under the Insecticides Act, 1968. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution

Causes mild eye and skin irritation.

Do not get in eyes, on skin, or on clothing

Wash thoroughly with soap and water after handling and before eating or smoking. Avoid inhalation of dust and contamination of food and feed. Remove and wash contaminated clothing before reuse.

Environmental Hazards: This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Control authorities permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not contaminate water when disposing of equipment washwaters.

Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

SECTION 16-OTHER INFORMATION

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 we 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 we have been advised of the possibility of such damages.