

1: IDENTIFICATION

Chemical Name	ethyl 2-[4-(6-chloroquinoxaline-2-yl)oxyphenoxy] propanoate		
Synonyms	Quizalofop-ethyl 5% EC	Trade Name	QUIZ MASTER
Uses	Herbicides	Molecular Formula	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)
Quizalofop-ethyl A.I	76578-14-8	5.00%
Other Ingredients	-	Q.S

3: HAZARD IDENTIFICATION

Human Health Hazard:	May cause eye irritation	May cause nausea, vomiting, and diarrhoea
	Not a skin irritant	May cause respiratory irritation upon inhalation.

4: FIRST AID MEASURES

General: Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment. Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation: Move patients to fresh air. Keep the patients warm and at rest. If person is not breathing then give artificial respiration. Allow patients to rest. Immediately seek medical attention.

Ingestion: Rinse mouth with water and give plenty of water to drink. Do not induce vomiting unless told by a physician. Do not give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

Skin Contact: In case of contact with product, wash immediately skin area with plenty of water and soap. Speed in removing material from skin is extremely important. Remove and isolate contaminated clothing and shoes. Call medical attention.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to Physician: No specific antidote. Treat symptomatically and give supportive therapy.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide

Unsuitable Extinguishing Media: Water stream as it may spread or scatter the fire

Specific Hazards: Product is classified as a C1 combustible product. No risk of an explosion from this product under normal circumstances.

Hazardous Thermal (de)composition: Combustion may release oxides of carbon and nitrogen, and/or chlorine compounds.

Special Procedures: Move containers away from area if it can be done without risk. If possible remove containers from fire zone, cool them with water spray. Minimize use of water to prevent environmental contamination. Dike and collect water used to fight fire to prevent environmental damage due to runoff. If area is not too heavily exposed to fire, and if conditions permit, let fire burn itself out, since water may increase the contamination hazard. Do not discharge extinguishing water into the drain or water bodies.

Protection of Fire Fighters: Do not enter fire areas without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Ventilate spillage area. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from spill/ fumes.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters.

Methods for Cleaning up: Clean up any spills as soon as possible, using an absorbent material such as sand, soil, diatomaceous earth etc. Collect and transfer into containers for disposal. Clean contaminated area and tools with hypochlorite bleach. Dispose of in accordance with local regulations. If significant amount of product enters into drain, notify the local authorities.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands using liquid detergent. Wear protective clothing to avoid contact and/or inhalation with the product. Eliminate all sources of ignition from areas where the material is handled or used. Good personal hygiene procedures must be practiced.

Specific Conditions: Good local exhaust ventilation.

Storage: Store in dry, cool, well-ventilated area, secure area at minimum storage temperatures. Keep in original container and tightly closed when not in use. Keep out of reach of children.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure area is well-ventilated, especially confined area. Ensure lighting and electrical equipment are not a source of ignition. Handle in accordance with good industrial hygiene and safety practice.

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: Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter.

Skin Protection: Must wear suitable protective clothing. Long-sleeve shirt, long pants, shoes plus socks. Any clothing or other absorbent material which has been drenched or heavily contaminated must be discarded.

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.

Eye Protection: Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Clear Liquid

Relative Density [g/cc]: 0.86 - 0.96

Physical State: Liquid

pH: 5.1 - 6.1

Colour: Yellow

Explosive Properties: Not an explosive

Flash Point [°C]: 62.1

Odour: Aromatic

10: STABILITY & REACTIVITY

Stability: Stable for under normal circumstances. Active may degrade in strong UV light.

Hazardous Decomposition Products: Harmful and toxic vapours/gasses such as oxides of nitrogen and chlorine may release. Combustion with limited oxygen may produce carbon monoxide

Conditions to Avoid: Very high or low temperatures

Materials to Avoid: Strong oxidising agents.

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg] : >1210

Rat inhalation LC50 [mg/l/4h] : No data available

Skin irritation (rabbit): Moderate irritant

Dermal (rat) LD50 [mg/kg]: >2000

Skin Sensitization (Guinea Pig): Non- Sensitizer

Eye irritation (rabbit): Slight irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity

Rainbow trout LC50 (96 hrs)[mg/L]: >0.5 Mallard duck LC50 [mg/kg]: >2000

Honey Bee LD50 (oral) [µg/bee]: Non toxic to bee

Bio-accumulation: No data available

Persistence, Degradability and Mobility in soil: No data available

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container.

Contaminated Packaging: Empty remaining contents and the rinse containers thrice before disposal. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers unless they are specifically designed to be refilled.

14: TRANSPORT INFORMATION

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Proper Shipping Name: Environmentally Hazardous Substance, liquid, n.o.s.

Land Transport (ADR/RID): Class-9, Packing Group-III

Sea Transport (IMO/IMDG): Class-9, Packing group-III, Marine Pollutant- Yes

Air transport (IATA/ICAO): Class-9, Packing group-III

15: REGULATORY INFORMATION

Hazard Symbol: Xn – Harmful; N - Dangerous for the Environment

Risk Phrases: R20, R22, R41, R 51/53, R65

Safety Phrases: S20/21, S23, S24/25, S29/35

16: OTHER INFORMATION

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