

Material Safety Data Sheet

Quizalofop-ethyl 5% EC

1. Chemical Product / Company Identification

Product name: Quizalofop-ethyl 5% EC

Active Ingredient: Quizalofop-ethyl

Manufacturer: Shanghai Tenglong Agrochem Co., Ltd.

Add: Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai

Phone Numbers: Tel: 86-21 5506 3225

Fax: 86-21-5506 3699

2. Composition/Information on Ingredients

Components	CAS Number	%(w/w)
Quizalofop-ethyl	100646-51-3	5%
Other ingredients	-	to 100%

3. Hazard identification

Hazard classification: Hazardous according to the criteria of NOHSC. Dangerous goods.

Risk phrases:

R20 Harmful by inhalation.

R22 Harmful if swallowed.

R41 Risk of serious damage to eyes.

R65 Harmful – may cause lung damage if swallowed.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Safety phrases:

S20/21 When using do not eat or drink/smoke

S23 Do not breathe spray.

S24/25 Avoid contact with skin/eyes

S29/35 Do not empty into drains/Dispose of material and container in a safe way

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.

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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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

If Inhaled: Move person to fresh air. If person is not breathing, call 120 an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

5. Fire Fighting Measures

Extinguishing Media: foam, water spray, dry chemical and carbon dioxide.

Unsuitable extinguishing media: Water stream.

Special Fire Fighting Procedures: Firefighters should wear self-contained breathing apparatus and full fire-fighting turn out gear. Use water spray. Cool tank/container with water spray.

Special hazards in fire: Product is classified as a C1 combustible product. There is no risk of an explosion from this product under normal circumstances. Combustion may release carbon dioxide, nitrogen oxides, and/or chlorine compounds

6. Accidental Release Measures

Emergency procedures: Wear protective equipment to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourse.

Personal Precautions: Wear appropriate protective gear for the situation. Keep people and animals away and upwind. Review Fire-Fighting Measures and Handling (Personnel) sections before proceeding with clean-up. Use appropriate Personal Protective Equipment during clean-up. Prevent material from entering sewers, waterways, or low areas.

Methods for containment & cleanup: Vermiculite, Sand, Soil is a suitable absorbent, especially soils high in clay. Soil can be used to form bunds to contain spillage. Contaminated soil should be collected for disposal at a suitable landfill. Contaminated area and tools should be washed down with hypochlorite bleach. Personal protective equipment and clothing should be washed with soapy water

7. Handling and Storage

Handling: All chemicals should be considered hazardous. Avoid direct physical contact. Use appropriate, approved safety equipment. Keep out of reach of children. Avoid contact with the eyes, skin and clothing and avoid inhalation of product or spray mist. If in

eyes, wash it immediately with water. After handling and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. Do not contaminate food or use on household tanks.

Storage: Store in the closed, original container in a dry, cool, well-ventilated area, secure area at minimum storage temperatures. Store in locked room or place away from children, animals, food, animal feed, seed and fertilizers.

8. Exposure Controls/Personal Protection

Engineering Controls: Use only with adequate ventilation. Keep container tightly closed

Respiratory Protection: Use NIOSH/MSHA approved respirator appropriate for exposure of concern.

Eye Protection: Chemical goggles.

Protective Clothing: Rubber gloves, respirator, boots, long sleeved shirt or jacket, long pants.

9. Physical and Chemical Properties

Active ingredient: Quizalofop-ethyl

Content: 5%

Chemical formula: $C_{19}H_{17}ClN_2O_4$

Molecular weight: 372.8 g/mol

Appearance: dark amber liquid

10. Stability and Reactivity

Conditions To Avoid: Very high or low temperatures.

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

Polymerization: Will not occur.

Hazardous decomposition products: Oxides of nitrogen and chlorine. Burning with limited oxygen may produce carbon monoxide.

Incompatible Materials: Strong oxidising agents.

11. Toxicological Information

Acute toxicity: Quizalofop-p-ethyl is harmful by oral exposure.

Rat:

Acute Oral LD₅₀: 1210 mg/kg (male); 1182 mg/kg (female)

Quizalofop-p-ethyl is not harmful by dermal exposure.

Rabbit:

Acute Dermal LD₅₀ > 2,000 mg/kg

Skin Irritation and Sensitization: Product is a moderate skin irritant; but not considered a skin sensitizer.

Inhalation 4 hour LC₅₀: 2.6 mg/L (rats, male); 4.4 mg/L (rats,female); 3.5 mg/L (rats combined)

12. Ecological Information

Acute oral LD₅₀ to bird:

mallard >2000mg/kg

Bobwhite >2000mg/kg

Toxicity to fish: LC₅₀ (96h): rainbow trout >0.5mg/L

Not toxic to bee

13. Disposal Considerations

All chemical are considered acutely toxic. Dispose of in an approved manner (consult local authority) only as a last resort. Otherwise, apply according to label instructions. Consult label and Directions for Use.

14. Transportation Information

UN NO.: 3082

Class: 9

15. Regulatory Information

There is no special information for it.

16. Other Information

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.