

## Material Safety Data Sheet

### Quizalofop-ethyl 92% Tech

#### 1. Chemical Product / Company Identification

**Product name:** Quizalofop-ethyl 92% TC

**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 | 92%     |
| Other ingredients | -           | to 100% |

#### 3. Hazard identification

**Emergency Overview:** Danger! Causes irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist.

#### 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. 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 911 or 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.

**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.

## 6. Accidental Release Measures

**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. Initial Containment Dike spill. Prevent material from entering sewers, waterways, or low areas.

**Spill Clean Up:** Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

**Accidental Release Measures:** If spill area is on ground near trees or other valuable plants remove top 2 inches of soil after initial clean up.

## 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.

**Exposure Effects:** CNS excitation, seizures, tremor, ataxia, agitation, nervousness, and amnesia may occur.

## 9. Physical and Chemical Properties

**Active ingredient:** Quizalofop-ethyl

**Content:** 92%

**Chemical formula:** C<sub>19</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>4</sub>

**Molecular weight:** 372.8 g/mol

**Appearance:** white to pale yellow fine crystalline solid

**Solubility In Water:** 0.61mg/L 20°C

## 10. Stability and Reactivity

**Conditions To Avoid:** Heat and open flame.

**Stability:** Stable under normal conditions.

**Polymerization:** Will not occur.

**Hazardous decomposition products:** toxic gases.

**Incompatible Materials:** None reasonably foreseeable.

## 11. Toxicological Information

**Rat:**

Acute Oral LD<sub>50</sub>: 1210 mg/kg (male); 1182 mg/kg (female)

**Rabbit:**

Acute Dermal LD<sub>50</sub> > 2,000 mg/kg

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

**Inhalation 4 hour LC<sub>50</sub>:** 2.6 mg/L (rats, male); 4.4 mg/L (rats, female); 3.5 mg/L (rats combined)

## 12. Ecological Information

**Acute oral LD<sub>50</sub> to bird:**

mallard >2000mg/kg

Bobwhite >2000mg/kg

**Toxicity to fish: LC<sub>50</sub> (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.

Tenglong Agrochem