

## **MATERIAL SAFETY DATA SHEET**

### **BUFLOXIN 25 EC**

#### **Section 1. Chemical Product and Company Identification**

**QINGDAO KYX CHEMICAL CO.,LTD**

Address: Guhe Industry Zone, Shuiji, Laixi City, Qingdao, China

**Product Name:** Bupirimate 15% + trifloxystrobin 10% EC

**Common Name:** Bupirimate; trifloxystrobin **Chemical Name**

**(IUPAC):**

Bupirimate: 5-butyl-2-ethylamino-6-methylpyrimidin-4-yl dimethylsulfamate

Trifloxystrobin: methyl

(*E*)-methoxyimino-{(*E*)- $\alpha$ -[1-( $\alpha,\alpha,\alpha$ -trifluoro-*m*-tolyl)ethylideneaminoxy]-*o*-tolyl} acetate

#### **Section 2. Composition/Information on Ingredients**

<b>Component</b>	<b>CAS Number</b>	<b>Content</b>
Bupirimate	41483-43-6	15%
Trifloxystrobin	141517-21-7	10%
Other Ingredients	Not available	Balance to 100%

#### **Section 3. Hazards Identification**

**Emergency Overview** Caution! Harmful if swallowed or absorbed through skin. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**Exposure routes** Ingestion, Eye contact, Skin contact, Skin Absorption

##### **Immediate Effects**

**Eye** Do not get in eyes.

**Skin** Harmful if absorbed through skin. May cause sensitization by skin contact. Avoid contact with skin and clothing.

**Ingestion** Harmful if swallowed. Do not take internally.

## **Chronic or Delayed Long-Term**

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

This product or its components may have target organ effects.

## **Potential Environmental Effect**

Highly toxic to bees. Toxic to fish and aquatic invertebrates.

## **Section 4. First Aid Measures Inhalation:**

If product has been inhaled, remove the source of contamination or move victim to fresh air. Administer artificial respiration if patient is not breathing; if breathing is laboured give oxygen. Only qualified personnel should administer oxygen. Obtain medical attention for any breathing difficulty.

### **Skin contact:**

Remove contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with copious amounts of water and non-abrasive soap for 15 – 20 minutes.

Obtain medical attention if irritation develops.

### **Eye contact:**

Immediately flush eyes with a stream of clean gently flowing water for at least 15 minutes, holding the eyelid(s) open. Remove contact lenses, if present, after the first 5 minutes.

Obtain medical attention if irritation develops.

### **Ingestion:**

Rinse mouth thoroughly with water if person is alert. Have person drink plenty of water if able to swallow. Never give anything by mouth to an unconscious person. Do not induce vomiting, unless instructed to do so by a physician. If vomiting occurs keep head lower than hips to prevent aspiration. Immediately obtain medical attention.

### **Note to Physician:**

Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

## **Section 5. Fire Fighting Measures**

### **Fire and Explosion Hazards**

In the event of fire the following may be released:

Hydrogen chloride (HCl)

Carbon monoxide (CO)

### **Suitable extinguishing media**

Water, Dry chemical, Foam

### **Fire Fighting Instructions**

Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

## **Section 6. Accidental Release Measures Personal**

### **precautions:**

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

### **Environmental precautions:**

Do not allow entering of drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs. Considered a Marine Pollutant.

### **Occupational spill:**

Do not touch spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

**For spills:** Ventilate area of leak or spill. If possible, vacuum clean dust with equipment fitted with HEPA filter. Use dust suppressant such as water if sweeping is necessary. Place the material into a clean, dry container and cover for subsequent disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Label drums with its content and dispose it in accordance with local regulations. Prevent material from spreading by damming in with absorptive material.

Do not flush spilled material into drains. Keep spectators away and upwind. Open burning or dumping of this material is prohibited.

**Section 7. Handling and Storage Handling:**

Harmful if in contact with skin and if swallowed. Irritating to eyes and skin. Avoid contact with eyes and skin, and inhalation of spray and vapour. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if the pesticide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present, or to inter-tidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

**Storage:**

Keep out of reach of unauthorised persons, children and animals. Store in its original labelled, tightly closed container in dry, cool and well-ventilated area, away from heat or open flame. Storage temperatures should not exceed 30 °C. Not to be stored next to feed, food and water supplies. Local regulations should be complied with.

**Section 8. Exposure Controls/Personal Protection Ventilation system:**

It is essential to provide adequate ventilation. Ensure that control systems are properly designed and maintained. The measures appropriate for a particular work site depend on how this material is used and on the extend of exposure. Comply with occupational safety, environmental, fire and other applicable regulations.

**Occupational Exposure Limits:**

TLV: 5 mg/m<sup>3</sup> (skin) (ACGIH 1993 – 1993).

**Respirator:**

Wear an approved full-face respirator for protection against dusts and mists. A respirator with a P2 filter is recommended.

**Skin Protection:**

Wear suitable personal protective clothing, boots, hat and equipment to prevent repeated or prolonged contact with this substance. Do not wear leather clothing.

**Hand Protection:**

Wear appropriate chemical resistant protective gloves to prevent contact with this substance. **Eye Protection:**

The use of chemical safety goggles and/or full-face shield is recommended. Maintain an eye wash fountain and quick-drench facilities in work area.

**Section 9. Physical and Chemical Properties**

Appearance	Light brown liquid
PH value	5.0-9.0
Persistent foaming	Maximum: 25 ml after 1 min
Density	0.90±0.05
Flammability	Non-flammable

**Section 10. Stability and Reactivity**

Chemical Stability Stable under recommended storage conditions.

**Section 11. Toxicological Information**

**Acute oral:** LD<sub>50</sub> for male and female rats >5000 mg/kg

**Acute dermal:** LD<sub>50</sub> for male and female rats >2000 mg/kg.

**Dermal and eye irritation:** Non-irritating to skin and eyes (rabbits).

**Skin Sensitization:** negative.

**Inhalation (4 h)** for rats >5.2 mg/l.

**Section 12. Ecological Information**

**Birds** Acute oral LD<sub>50</sub> for quail and ducks >2000 mg/kg. Dietary LC<sub>50</sub> for quail and ducks >5000 ppm.

**Fish** LC<sub>50</sub> (96 h) for rainbow trout 0.21, carp 0.29 mg/l.

**Daphnia** EC<sub>50</sub> (48 h) 0.18 mg/l.

**Bees** LD<sub>50</sub> for honeybees (oral) >100 µg/bee; (contact) >100 µg/bee.

**Worms** Acute LC<sub>50</sub> (14 d) for earthworms >1000 mg/kg.

### **Section 13. Disposal Considerations Product**

#### **disposal:**

Contaminated absorbents, surplus product, etc., should be burnt at > 1 000 °C in an incinerator, preferably designed for pesticide disposal, or buried in an approved landfill. Comply with local legislation applying to waste disposal. Do not allow product to contaminate ground water system and surface water.

#### **Package material disposal:**

Do not re-use empty containers for any other purpose. Do not contaminate rivers, dams, drinking water or boreholes with chemical or used container. Incinerate the material at a facility that complies with local regulations.

### **Section 14. Transport Information**

#### **UN number**

ADR/RID: 3082    IMDG: 3082    IATA: 3082

#### **UN proper shipping name**

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA:    Environmentally hazardous substance, Liquid, n.o.s.)

#### **Transport hazard class(es)**

ADR/RID: 9    IMDG: 9    IATA: 9    **Packaging**

#### **group**

ADR/RID: III    IMDG: III    IATA: III



## Environmental hazards

ADR/RID: yes      IMDG Marine pollutant: yes      IATA: yes

## Special precautions for user

## Further information

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

## Section 15. Regulator Information

Follow all regulations in your country.

## Section 16. Other Information Disclaimer:

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.

The information provided by Qingdao KYX Chemical Co., Ltd contained herein is given in good faith and to the best of our knowledge. However, no warranty is expressed or implied.

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