

## Material Safety Data Sheet

### Diquat 40% TK

#### 1. IDENTIFICATION OF THE SUBSTANCE

**Product Name:** Diquat 40% TK

**Company Identification:** SHANGHAI TENGLONG AGROCHEM CO., LTD.

Yangpu building 24B, No.2005, Huangxing Road, Yangpu Shanghai, P.R. CHINA

**Telephone:** +86 21 5506 3225

**Fax:** +86 21 5506 3699

#### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Identity | CAS number | Content |
|----------|------------|---------|
| Diquat   | 85-00-7    | 40%     |

#### 3. HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid

Color: Brown

Odor: Odorless

**DANGER!**

Harmful if swallowed. Causes eye irritation. May be fatal if inhaled.

Potential Health Effects

Inhalation: May be fatal if inhaled.

Eye Contact: Causes eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

Skin Contact: None known.

Ingestion: Harmful if swallowed.

Target Organ(s): | Eye | Kidney |

OSHA Regulatory Status: This product is hazardous according to OSHA 29CFR 1910.1200.

#### 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary. Get medical attention immediately.

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Skin Contact:** Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

**Ingestion:** Give one or two glasses of water if patient is alert and able to swallow. Seek immediate medical attention. Do not induce vomiting.

#### 5. FIRE-FIGHTING MEASURES

Shanghai Tenglong Agrochem Co., Ltd [www.tlongagro.com](http://www.tlongagro.com)

Tel: (86)21-55063225 Fax: (86)21-55063699

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

**Extinguishing Media:** Extinguish with foam, carbon dioxide, dry powder or water fog.

**Unsuitable Extinguishing Media:** Not applicable.

**Special Fire Fighting Procedures:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Unusual Fire & Explosion Hazards:** None known.

**Hazardous Combustion Products:** Bromides, Carbon Oxides, Chlorides, Nitrogen Oxides

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear appropriate personal protective equipment.

**Spill Cleanup Methods:** Small Liquid Spills: Absorb up with sand or other non-combustible absorbent material. Large Spillages: Flush area with water. Prevent runoff from entering drains, sewers, or streams.

## **7. HANDLING AND STORAGE**

**Handling:** Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

**Storage:** Store away from incompatible materials.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits:**

**Engineering Controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Respiratory Protection:** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

**Eye Protection:** Wear safety glasses with side shields (or goggles).

**Hand Protection:** It is a good industrial hygiene practice to minimize skin contact.

**Skin Protection:** Apron and long sleeves are recommended. Risk of contact: Full protective clothing should be worn when handling this product.

**Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental Exposure Controls:** Environmental manager must be informed of all major spillages.

#### **9. PHYSICAL AND CHEMICAL PROPERTIES**

Color: Brown

Odor: Odorless

Physical State: Liquid

pH: 4 - 6

Specific Gravity: 1.2 (20°C)

Solubility in Water: Soluble

#### **10. STABILITY AND REACTIVITY**

Stability: Stable.

Conditions to Avoid: None known.

Incompatible Materials: Aluminum. Strong oxidizing agents.

Hazardous Decomposition Products: No data available.

#### **11. TOXICOLOGICAL INFORMATION**

Acute Toxicity:

Test Results: No test data available for the ingredients.

Listed Carcinogens: None.

Product Information

Acute Toxicity:

Test Results: Dermal LD50 (Rat): > 5050 mg/kg

Inhalation LC50 (4 hour(s), Rat): 0.62 mg/l

Oral LD50 (Rat): 886 mg/kg

Other Acute: Causes eye irritation.

Chronic Toxicity: No additional adverse health effects noted.

#### **12. ECOLOGICAL AND ECOTOXICOLOGICAL INFORMATION**

Ecotoxicity: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product

LC50 (Fish): 14.8 ppm (v)

LC50 (Bluegill Sunfish): 13.9 ppm (v)

EC50 (Water Flea): 0.77 - 1.19 ppm (v)

Mobility: May cause long-term adverse effects in the aquatic environment.

Persistence and Degradability: No data available.

Bioaccumulation Potential: No data available.

#### **13. DISPOSAL CONSIDERATIONS**

General Information: Dispose of waste and residues in accordance with local authority requirements.

Disposal Methods: No specific disposal method required.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

#### **14. TRANSPORT INFORMATION**

DOT

UN No.: UN1760

Proper Shipping Name: Corrosive liquids, n.o.s. (Diquat dibromide)

Class: 8

Packing Group: III

Label(s): 8

TDG

UN No.: UN1760

Proper Shipping Name: Corrosive liquids, n.o.s. (Diquat dibromide)

Class: 8

Packing Group: III

IATA

UN No.: UN1760

Proper Shipping Name: Corrosive liquid, n.o.s. (Diquat dibromide)

Class: 8

Packing Group: III

Label(s): Corrosive

IMDG

UN No.: UN1760

Proper Shipping Name: Corrosive liquids, n.o.s. (Diquat dibromide)

Class: 8

Packing Group: III

EmS No.: F-A, S-B

#### **15. REGULATORY INFORMATION**

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: D1A, D2B, E

Mexican Dangerous Statement: This product is dangerous according to Mexican regulations.

Inventory Status

Inventory Status: All components of this product are either listed or are exempt from listing on the U.S. Toxic Substances Control Act (TSCA).

#### **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

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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