

# Material Safety Data Sheet

## Paraquat 42% TC

### 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

PRODUCT NAME: PARAQUAT

Chemical Name: 1,1'-Dimethyl-4,4'-bipyridinium dichloride (paraquat dichloride)

Formula:  $\text{CH}_3(\text{C}_5\text{H}_4\text{N})_2\text{CH}_3\text{Cl}_2$

Molecular mass: 257.2

Manufacturer: Changzhou Good-Job Biochemical Co., Ltd

Add: No. 398, Middle Tongjiang Road, Xinbei District, Changzhou, Jiangsu, China

Phone Numbers: Tel: 86-519-85153978 Fax: 86-519-85153975

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient (%): Paraquat dichloride 42% min

Dyes: 0.015%

### 3. HAZARDS IDENTIFICATION

Inhalation: Cough. Laboured breathing. Sore throat.

Skin contact: Harmful if absorbed through skin..

Eyes contact: Causes substantial but temporary eye injury.

Ingestion: May be fatal if swallowed.

### 4. FIRST AID MEASURES

Inhalation: Fresh air, rest. Half-upright position. Artificial respiration if indicated.

Refer for medical attention.

Skin contact: Flush skin with running water for a minimum of 20 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing.

Obtain medical attention immediately.

Eyes contact: First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor

Ingestion: Rinse mouth. Give plenty of water or bentonite clay in water, or give a slurry of activated charcoal in water to drink. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Refer for medical attention.

### 5. FIRE FIGHTING MEASURES

Fire and Explosion:

Flash Point:  $>194^\circ\text{F}$

Flammable Limites(% in Air): Lower: % Not Applicable Upper: % Not Applicable

Autoignition Temperature:  $>1157^\circ\text{F}$

Flammability: Combustible liquid

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing media: In case of fire in the surroundings: powder, water spray, foam, carbon dioxide. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

## **6. ACCIDENTAL RELEASE MEASURES**

Consult an expert! Collect leaking and spilled liquid in sealed containers as far as possible. Absorb remaining liquid in sand or inert absorbent and remove to safe place. Sweep spilled substance into dry, sealed containers. Carefully collect remainder, then remove to safe place (extra personal protection: P3 filter respirator for toxic particles).

## **7. HANDLING AND STORAGE**

Handling: NO contact with oxidizing agents. Local exhaust or breathing protection. Protective gloves. Protective clothing.

Storage: Keep locked up. Separated from strong oxidants, strong bases, food and feedstuffs. Dry. Keep in the dark. Store above 32°F. Wash thoroughly with soap and water after handling.

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

Repeated or prolonged contact with skin may cause dermatitis, abnormalities and loss of fingernails. Lungs may be affected by repeated or prolonged exposure to the aerosol.

Ingestion : Prevent eating, drinking, Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits.

## **9. PHYSICAL AND CHEMICALS PROPERTIES**

Appearance: blue and green liquid

Melting point (decomposes): not available

Specific Gravity:density : 1.15

PH value: 2-7

## **10. STABILITY AND REACTIVITY**

Stable under normal use and storage conditions. The substance decomposes under influence of UV light producing toxic and corrosive fumes including nitrogen oxides, hydrogen chloride. Reacts with strong oxidants. Reacts with bases (hydrolysis). Unformulated products are corrosive to common metals. Inactivated by inert clays and by anionic surfactants.

## **11. TOXICOLOGICAL INFORMATION**

Acute toxicity oral to female rats: LD<sub>50</sub>90.9mg/kg

Acute toxicity oral to male rats: LD<sub>50</sub>88.0mg/kg

Acute toxicity dermal to female rats: LD<sub>50</sub>287mg/kg

Acute toxicity dermal to male rats: LD<sub>50</sub>237mg/kg

Acute toxicity inhalation to rats: LC<sub>50</sub>>1.5mg/l

Eye Contact: Severe Irritation (Rabbit)

Skin Contact: Moderate Irritation (Rabbit)

Skin Sensitization: Not a skin sensitizer in animal tests.

Other Toxicity Information: the health hazard assessment is based on the results of animal toxicity testing and reports of accidental human exposures.

## **12. ECOLOGICAL INFORMATION**

Summary of Effects: Paraquat dichloride is toxic to wildlife.

Eco=Chronic Toxicity: Paraquat dichloride: Not Available.

Environmental Fate: No data available for the formulation. The information presented here is for the active ingredient, paraquat dichloride.

## **13. DISPOSAL CONSIDERATIONS**

Additional inform. : Paraquat is rapidly adsorbed and de-activated in soil.

Observe all federal state and local environmental regulations. Permitted for hazardous waste.

## **14. TRANSPORT INFORMATION**

Road (TDG) transport: Bipyridylum Pesticides, Liquid, Toxic, N.O.S (paraquat solution), Class Unbreakable packaging; put breakable packaging into closed unbreakable container. Do not transport with food and feedstuffs.

UN Hazard Class: 6.1

UN Packing Group: III

UN # 3016

## **15. REGULATORY INFORMATION**

Hazardous Ingredients: Paraquat dichloride

Other regulations, restrictions and prohibitions

Pest Control Products (PCP)

## 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.