

# Safety Data Sheet

# **SECTION 1. IDENTIFICATION**

Product Name:Solera Diquat 2L DesiccantChemical Name:Diquat dibromide [6,7-dihydrodipyrido(1,2-a:2',1'-c)pyrazinediium dibromide] (active)EPA Registration No.:82542-15-84237Recommended Use:DessicantManufacturer:Solera ATO, LLC12230 E Del NorteYuma, AZ 85367Customer Service (928) 503-1518

FOR MEDICAL EMERGENCIES, CONTACT the National Poison Information Center 1-800-222-1222 FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

# **SECTION 2. HAZARDS IDENTIFICATION**

NOTE: Please refer to Section 11 for detailed toxicological information.

#### HAZARD CLASSIFICATION

Acute Oral Toxicity: Category 4; Acute dermal Toxicity: Category 4; Acute Inhalation Toxicity: Category 2; SIGNAL WORD Caution

## HAZARD STATEMENTS

Toxic by inhalation. Irritating to eyes and skin. Harmful if swallowed. Flammable hydrogen gas may be formed on contact with aluminum. See "Conditions to Avoid", Section 10. May decompose at high temperatures forming toxic gases. This product may form flammable and explosive hydrogen gas when in contact with aluminum. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

## PICTOGRAMS



SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS				
Hazardous Component Name Diquat dibromide		<u>CAS-No.</u> 85-00-7	Average % by Weight 37.3	
SECTION 4.	FIRST AID MEASURES			
General	When possible, have the product		ou when calling a poison	
Eye	control center or doctor or going for treatment. 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			
Skin	physician or poison control center immediately. Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.			
Ingestion	Call a physician or poison control center immediately. Drink one or two glasses of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or physician. Never give anything by mouth to an unconscious person. Do not leave victim unattended			
Inhalation	Move to fresh air. If person is not l respiration, preferably mouth-to-m immediately.			
Notes to Physician				
To be effective, treatment for ingestion of the product must being IMMEDIATELY. Treatment consists of binding the active ingredient, diquat, in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination and removal of diquat from the blood by charcoal				

hemoperfusion or continuous hemodialysis. Medical Conditions Likely to be Aggravated by Exposure None known.

#### **SECTION 5. FIRE FIGHTING MEASURES**

#### **Unusual Fire, Explosion and Reactivity Hazards**

This product may form flammable and explosive hydrogen gas when in contact with aluminum. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

#### In Case of Fire

Use dry chemical, foam or CO2 extinguishing media. 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.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Control the spill at its source. Contain the spill to prevent from spreading or contaminated soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition

# SECTION 7. HANDLING AND STORAGE

This product reacts with aluminum to produce flammable hydrogen gas. Do not mix or store in containers or systems made of aluminum or having aluminum fittings.

Store the material in well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Weak there use and water after bendling.

material. Wash thoroughly with soap and water after handling.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROL/PERSONAL PROTECTION AREINTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCTLABEL.Eye ProtectionUse splash-proof goggles if needed to prevent liquid from getting into the

	eyes.
Ingestion	Prevent eating, drinking, tobacco usage and cosmetic application in areas
	where there is a potential for exposure the material. Wash thoroughly with
	soap and water after handling.
Skin Protection	Where contact is likely, wear chemical-resistant gloves (such as barrier
	laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber,
	polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant
	footwear. For overhead exposure, wear chemical-resistant headgear.
Inhalation	A respirator is not normally required when handling this substance. Use
	effective engineering controls to comply with occupational exposure limits.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark brown liquid
Odor	Odorless
pH	4 - 6
Specific Gravity	1.20g/mL at 20 °C
Melting Point	Not Applicable
Water solubility	718,000 mg/L @20 <sup>0</sup> C and pH 7.2 (Diquat dibromide)
Vapor Pressure	<10(-8) mmHg@25 <sup>0</sup> C (Diquat dibromide)
Flash point	Not Applicable
Flammable Limits (% in Air)	Not Applicable

## SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid	Concentrate should not be stored in aluminum containers. Spray solutions should not be mixed, stored or applied in containers other than plastic, plastic-lined steel, stainless steel or fiberglass.	
Hazardous Polymerization	Will not occur	
Chemical Stability	Stable under normal conditions.	
Materials to Avoid	Strong alkalis and anionic wetting agents (e.g., alkyl and alkylaryl sulfonates). Corrosive to aluminum.	
Hazardous Decomposition	Flammable hydrogen gas may be formed on contact with aluminum. See "Conditions to Avoid", Section 10. May decompose at hight temperatures forming toxic gases.	

## **SECTION 11. TOXICOLOGICAL INFORMATION**

#### Acute Toxicity/Irritation Studies (Finished Product)

Ingestion	Rat (Female): LD50:	= 886 mg/kg body weight		
	Slightly Toxicity			
Dermal	Rat: LD50:	>5,050 mg/kg body weight		
	Practically Non-Toxic			
Inhalation	Rat: LC50:	= 0.62 mg/L air – 4 hours		
Eye Contact	Mildly Irritating (Rabbit)			
Skin Contact	Slightly Irritating (Rabbit)			
Skin Sensitization	Not a Sensitizer (Guine	a Pig)		
Reproductive and Developmental Effects				

## **Reproductive and Developmental Effects**

Diquat dibromide:

Mutagenicity: No evidence in in vivo assays.

Developmental Toxicity: In rabbit studies a small percentage of fetuses had minor defects at 3 and 10 mg ion/kg/d.

## Chronic/Sub-Chronic Toxicity Studies

Diquat dibromide:

Kidney weight decreases and cataracts seen in dogs at 12.5 mg ion/kg/d. No evidence for neurotoxic effects in rats dosed up to 400 ppm ion in the diet for 13 weeks.

# Carcinogenicity

Diquat dibromide:

No evidence of carcinogenicity in rat and mouse studies.

# **Other Toxicity Information**

None

## Toxicity of Other Components

Not Applicable

## Target Organs

Active Ingredients Diquat Dibromide: Eye, kidney Inert Ingredients Not Applicable

# **SECTION 12. ECOLOGICAL INFORMATION**

# Summary of Effects

Diquat dibromide:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

## Eco-Acute Toxicity

Diquat dibromide:					
Fish (Rainbow Trout)	96-hour LC50	14.83ppm Fish			
(Bluegill Sunfish)	96-hour LC50	13.9ppm Bird (Mallard			
Duck)	LD50 Oral 60.6 mg/kg				
Bird (Bobwhite Quail)	8-day dietary LC50 2932				

Bird (Mallard Duck)8-day dietary LC50 . 5000ppmBee (Contact)LD50 100ug/beeInvertebrate (Water Flea)48-hour EC50 0.77ppmGreen Algea4-day EC50 9.4ppb

#### **Eco-Chronic Toxicity**

Diquat dibromide:

Invertebrate (Water Flea) 21-day LOEC 0.17ppm Bird (Mallard Duck) Reproduction LOEL 25ppm Fish (Fathead Minnow) 34-day LOEC 1.5ppm

Environmental Fate

Diquat dibromide:

The information presented here is for the active ingredient, diquat dibromide. Stable in soil water. Immobile in soil. Sinks in water (after 24 hr).

# **SECTION 13. DISPOSAL CONSIDERATIONS**

#### WASTE DISPOSAL

Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

#### DISPOSAL

Do not contaminate water, food or feed by storage. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

#### CONTAINER DISPOSAL

Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.

## **SECTION 14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:** Corrosive Liquid, N.O.S. (Diquat Dibromide),8,UN1760,PGIII **IMDG CLASSIFICATION:** Corrosive Liquid, N.O.S. (Diquat Dibromide),8,UN1760,PGIII **B/L FREIGHT CLASSIFICATION**: Herbicides, NOI (NMC Class 60)

## **SECTION 15. REGULATORY INFORMATION**

**EPCRA SARA Title III Classification** 

Section 311/312 Hazard Classes:

Section 313 Toxic Chemicals:

Acute Health Hazard Chronic Health Hazard Not Applicable

**California Proposition 65** 

None

# CERCLA/SARA 302 Reportable Quantity (RQ)

Report product spills >= 268 gal.(based on diquat [RQ=1,000lbs] content in the formulation)

RCRA Hazardous Waste Classification (40 CFR 261)

Not Applicable

**TSCA Status** 

Exempt from TSCA, subject to FIFRA

## **SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association): Health - 2 Flammability - 1 Reactivity - 0 Others - none 0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions.

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