

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**
**Product Identifier**

**Product Name** WinField® Diquat 240

**Other means of identification**

**CAS Number** 85-00-7 + Other Ingredients  
**Formula** Mixture  
**Synonyms** Dipyrido[1,2-A:2', 1'- C]Pyrazinium, 6,7-Dihydro-, Bromide (1:2); Ethylene Dipyridylum Dibromide  
**UN-No** UN1760  
**Other Information** PMRA 35429

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Agriculture  
**Uses advised against** Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

**Details of the supplier of the safety data sheet**

**Initial Supplier Address** WinField United Canada, ULC 101-302 Wellman Lane Saskatoon, SK S7T-0J1, CANADA  
**Manufactured For** Winfield Solutions, LLC P.O. Box 64589 St. Paul, MN 55164-0589, UNITED STATES

**Emergency telephone number(s)** **FOR MEDICAL EMERGENCY: 1-877-424-7452 (24 hrs)**

**FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hrs)**

**Non-Emergency Business Inquiries** 1-888-875-4769 Mon – Fri 8am – 5pm (Central Standard Time)

**2. HAZARDS IDENTIFICATION**
**Classification**

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin Sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Chronic aquatic toxicity	Category 1

**Label elements**

**Emergency Overview**

**Signal Word****DANGER****Hazard statements**

Harmful if swallowed  
Toxic in contact with skin  
Fatal if inhaled  
Causes skin irritation  
Causes serious eye irritation  
May cause an allergic skin reaction  
May cause respiratory irritation  
Causes damage to organs through prolonged or repeated exposure  
Very toxic to aquatic life with long lasting effects

**Appearance**

Light brown to Dark brown

**Physical State**

Liquid

**Odor**

Odorless

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wear respiratory protection  
Wear protective gloves/protective clothing/eye protection/face protection  
Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)  
Get medical advice/attention if you feel unwell  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present  
If eye irritation persists: Get medical advice/attention  
IF ON SKIN: Wash with plenty of soap and water  
Take off contaminated clothing and wash before reuse  
If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician  
Call a POISON CENTER or doctor/physician if you feel unwell  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

None known

**Other Information**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms** Dipyrido[1,2-A:2', 1'- C]Pyrazinium, 6,7-Dihydro-, Bromide (1:2); Ethylene Dipyridylum Dibromide

**Formula** Mixture

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Diquat dibromide	85-00-7	37.3	0.5 mg/m <sup>3</sup> TWA (inhalable fraction, listed under Diquat); 0.1 mg/m <sup>3</sup> TWA (respirable fraction, listed under Diquat) 0.5 mg/m <sup>3</sup> TWA (inhalable fraction); 0.1 mg/m <sup>3</sup> TWA (respirable fraction)

**4. FIRST AID MEASURES****First Aid Measures**

**General Advice** Show this safety data sheet to the doctor in attendance.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician or poison control center immediately.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. Call a physician or poison control center immediately.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Self-Protection of the First Aider** Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

**Most important symptoms and effects, both acute and delayed**

**Signs and Symptoms** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

**Unsuitable Extinguishing Media** No information available.

**Hazardous Combustion Products**

Thermal decomposition or combustion may produce hazardous gases and/or materials.

**Explosion Data**

Not available

**Sensitivity to mechanical impact** Not available.

**Sensitivity to static discharge** Not available.

**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

**Environmental Precautions**

Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

**Methods and material for containment and cleaning up****Methods for Clean-up**

Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Handling**

Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with eyes, skin and clothing. Avoid repeated exposure.

**Conditions for safe storage, including any incompatibilities****Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep out of the reach of children.

**Incompatible Materials**

Cadmium. Metals. Strong Alkalies. Anionic wetting agents (alkyl and alkylaryl sulfonates). Corrosive to aluminum.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diquat dibromide 85-00-7	0.5 mg/m <sup>3</sup> TWA (inhalable particulate matter, listed under Diquat); 0.1 mg/m <sup>3</sup> TWA (respirable particulate matter, listed under Diquat) 0.5 mg/m <sup>3</sup> TWA (inhalable particulate matter); 0.1 mg/m <sup>3</sup> TWA (respirable particulate matter) Skin - potential significant contribution to overall exposure by the cutaneous route	(vacated) TWA: 0.5 mg/m <sup>3</sup>	-
Other Ingredients N/A	-	-	-

**Appropriate engineering controls****Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Tight sealing safety goggles. Face shield.
<b>Skin and body protection</b>	Use suitable eye protection and gloves.
<b>Respiratory Protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.

<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. For additional information consult the EPA Pesticide Label.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Appearance</b>	Light brown to Dark brown
<b>Physical State</b>	Liquid
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>
<b>pH</b>	No Data Available	
<b>Melting point / Freezing point</b>	No Data Available	Literary Reference
<b>Boiling point / boiling range</b>	No information available	
<b>Flash Point</b>	No Data Available	No information available
<b>Evaporation Rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>	No information available	
<b>Upper flammability limit</b>	No information available	
<b>Lower flammability limit</b>	Not available	
<b>Vapor Pressure</b>	No information available	
<b>Vapor Density</b>	Not available	
<b>Specific Gravity</b>	1.2 g/ml@20°C	
<b>Water Solubility</b>	Soluble	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	Not available	
<b>Autoignition temperature °C</b>	No Data Available	Estimated
<b>Decomposition temperature</b>	No Data Available	

Kinematic Viscosity	No information available
Dynamic Viscosity	Not available
Explosive Properties	No information available
Oxidizing Properties	No information available

**Other Information**

Softening Point	No information available
Molecular Weight	No information available
VOC content	No information available
Liquid Density	No information available
Bulk density	No information available
Corrosion characteristics	No information available

**10. STABILITY AND REACTIVITY**

Reactivity	Not applicable.
Chemical Stability	Stable under recommended storage conditions
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Do not store in aluminum containers. Contact with aluminum may form flammable hydrogen gas upon contact.
Incompatible Materials	Cadmium. Metals. Strong Alkalies. Anionic wetting agents (alkyl and alkylaryl sulfonates). Corrosive to aluminum.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Nitrogen oxides (NO <sub>x</sub> ). Halogenated compounds. Hydrogen bromide gas.
Possibility of Hazardous Reactions	Flammable hydrogen gas may be formed on contact with aluminum

**11. TOXICOLOGICAL INFORMATION****Product Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diquat dibromide	= 214 mg/kg ( Rat )	= 433 mg/kg ( Rat )	-

**Component Information**

**The following values are calculated based on chapter 3.1 of the GHS document**

**Information on likely routes of exposure**

Eyes	Irritating to eyes. Avoid contact with eyes.
Skin	Toxic in contact with skin. Irritating to skin. Avoid contact with skin.
Inhalation	Fatal if inhaled. Avoid breathing vapors or mists.
Ingestion	Harmful if swallowed. Do not take internally.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Diquat dibromide 85-00-7	A4 - Not Classifiable as a Human Carcinogen	-	-	-
Other Ingredients N/A	-	-	-	-

**Irritation** Skin, rabbit: 1.09 E-3 Torr (Calculated) ; Eye, rabbit: Slightly

**Serious eye damage/irritation** No information available.

**Skin Corrosion/Irritation** No information available.

**Sensitization** May cause allergic skin reaction.

**Reproductive Effects** No information available.

**Mutagenic Effects** No information available.

**Developmental Effects** No information available.

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - Repeated Exposure** Causes damage to organs through prolonged or repeated exposure.

**Chronic Toxicity** Avoid repeated exposure.

**Target Organ Effects** Eyes, Skin, Respiratory system, Kidney, Liver, Central nervous system (CNS), [Diquat dibromide].

**Aspiration Hazard** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Very toxic to aquatic life with long lasting effects Avoid release to the environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diquat dibromide 85-00-7	0.011: 96 h Pseudokirchneriella subcapitata mg/L EC50	13.29 - 190.18: 96 h Cyprinus carpio mg/L LC50 static 11.2: 96 h Oncorhynchus mykiss mg/L LC50 static 14: 96 h Pimephales promelas mg/L LC50 35: 96 h Lepomis macrochirus mg/L LC50 35: 96 h Lepomis macrochirus mg/L LC50 static	-	= 1.2 mg/L EC50 1.2: 48 h Daphnia magna mg/L EC50

**Persistence/Degradability** No information available.

**Bioaccumulation/Accumulation** No information available.

**Mobility in Soil** No information available.

Chemical name	log Pow =
Diquat dibromide 85-00-7	-4.6

**Other adverse effects** No information available

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

**Disposal Methods** Dispose of in accordance with local regulations. Dispose of in accordance to EPA Pesticide Label Instructions.

**Contaminated Packaging** Dispose of in accordance with local regulations. Dispose of in accordance to EPA Pesticide Label Instructions.

### 14. TRANSPORT INFORMATION

#### DOT

UN-No UN1760  
 Proper Shipping Name Corrosive liquids, n.o.s.  
 Hazard class 8  
 Packing Group III  
 Reportable Quantity (RQ) =454 kg final RQ listed under Diquat (@37.3% Diquat dibromide)  
 DOT Marine Pollutant P.  
 Description UN1760, Corrosive liquids, n.o.s.(Diquat dibromide), 8, III , Marine Pollutant  
 Emergency Response Guide Number 154

#### TDG

UN-No UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s.  
 Hazard class 8  
 Packing Group III  
 Description UN1760, Corrosive liquid, n.o.s. (Other Ingredients, Diquat dibromide), 8, III

#### MEX

UN-No UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s.  
 Hazard class 8  
 Packing Group III  
 Description UN1760, Corrosive liquid, n.o.s. (Other Ingredients, Diquat dibromide), 8, III

#### ICAO

UN-No UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s.  
 Hazard class 8  
 Packing Group III  
 Description UN1760, Corrosive liquid, n.o.s. (Other Ingredients, Diquat dibromide), 8, III

#### IATA

UN number UN1760  
 Proper Shipping Name Corrosive liquid, n.o.s.  
 Transport hazard class(es) 8  
 Packing Group III



**Description** UN1760, Corrosive liquid, n.o.s. (Other Ingredients, Diquat dibromide), 8, III

**IMDG**

**UN number** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s.  
**Transport hazard class(es)** 8  
**Packing Group** III  
**EmS No.** F-A, S-B  
**Marine Pollutant** This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO  
**Description** UN1760, Corrosive liquid, n.o.s. (Other Ingredients, Diquat dibromide), 8, III

**RID**

**UN-No** UN1760  
**Proper Shipping Name** CORROSIVE LIQUID, N.O.S.  
**Transport hazard class(es)** 8  
**Packing Group** III  
**Classification Code** C9  
**Description** UN1760, CORROSIVE LIQUID, N.O.S. (Other Ingredients, Diquat dibromide), 8, III  
**ADR/RID-Labels** 8

**ADR**

**UN-No** UN1760  
**Proper Shipping Name** Corrosive liquid, n.o.s.  
**Hazard Class** 8  
**Packing Group** III  
**Classification Code** C9  
**Tunnel Restriction Code** (E)  
**Description** UN1760, Corrosive liquid, n.o.s. (Other Ingredients, Diquat dibromide), 8, III, (E)  
**Labels** 8

**ADN**

**Proper Shipping Name** Corrosive liquid, n.o.s.  
**Transport hazard class(es)** 8  
**Packing Group** III  
**Classification Code** C9  
**Special Provisions** 274  
**Description** UN1760, Corrosive liquid, n.o.s. (Other Ingredients, Diquat dibromide), 8, III  
**Hazard label(s)** 8  
**Limited Quantity** LQ7  
**Equipment Requirements** PP, EP

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

**TSCA** Does not comply  
**Canada (DSL)** Does not comply  
**EU (EINECS)** Does not comply  
**EU (ELINCS)** Does not comply  
**Japan (ENCS)** Does not comply  
**China (IECSC)** Does not comply  
**Korea (KECL)** Does not comply  
**Philippines (PICCS)** Does not comply  
**Australia (AICS)** Does not comply  
**Mexico INV** Does not comply  
**Taiwan INV** Does not comply

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
Diquat dibromide	-	Present	X	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)

-	Present (5)-3913	-	Present	Present	Present
<b>Chemical name</b>		<b>Mexico INV</b>		<b>Taiwan INV</b>	
Diquat dibromide 85-00-7		Present		Present	

This material as a whole is exempt from the TSCA Inventory, FIFRA Regulated Pesticides, and Canadian PMRA Regulations.

## ***Federal Regulations***

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### **SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

### **VOC content**

This Product does not contain any VOCs

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<b>Chemical name</b>	<b>CWA - Reportable Quantities</b>	<b>CWA - Toxic Pollutants</b>	<b>CWA - Priority Pollutants</b>	<b>CWA - Hazardous Substances</b>
Diquat dibromide 85-00-7	-	-	-	-

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<b>Chemical name</b>	<b>CERCLA/SARA Hazardous Substances</b>	<b>CERCLA/SARA RQ</b>	<b>RQ</b>
Diquat dibromide 85-00-7	1000 lb final RQ (listed under Diquat); 454 kg final RQ (listed under Diquat) 1000 lb final RQ; 454 kg final RQ	-	1000 lb final RQ (listed under Diquat); 454 kg final RQ (listed under Diquat) 1000 lb final RQ; 454 kg final RQ

## State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

This product contains the following State Right-to-Know chemicals:

Chemical name	New Jersey	Massachusetts	Illinois	Rhode Island	Pennsylvania
Diquat dibromide 85-00-7	sn 0808	Present	-	Toxic	Environmental hazard

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## Canada

### WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (SOR/2015-17) and the SDS contains all the information required by SOR/2015-17.

## 16. OTHER INFORMATION

### NFPA

Health 3

Flammability 0

Instability 0

Physical Hazard 0



Issuing Date

13-FEB-2025 (NEW)

Revision Date

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet