

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US - OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 02-Feb-2023 Revision Date 25-Apr-2024 Revision Number 2

# 1. Identification

**Product identifier** 

Product Name Willowood Paraquat 3SL

Other means of identification

**EPA Reg. No.** 87290-35 **UN/ID no** UN2922

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

**Restrictions on use**Use only as directed on product label

Details of the supplier of the safety data sheet

**Supplier Address** 

Generic Crop Science, LLC 1887 Whitney Mesa Drive #9740 Henderson, NV 89014-2069 1-844-200-FARM (3276)

E-mail regulatory@farmersbusinessnetwork.com

**Emergency telephone number** For Emergency Medical Assistance (Human or Animal) contact Rocky Mountain

Poison Control at 866-767-5040.

For Chemical Emergency Assistance (Spill, Leak, Fire or Accident) contact CHEMTREC at 800-424-9300 (North America) or 703-527-3887 (International).

# 2. Hazard(s) identification

### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Corrosive to metals	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable.

#### Label elements

### **Danger**

#### **Hazard statements**

May be corrosive to metals.

Toxic if swallowed.

Toxic in contact with skin.

Fatal if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure.



### **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 vapor or mist.

Use only outdoors or in a well-ventilated area.

Wear respiratory protection.

Keep only in original packaging.

Wear protective gloves/clothing and eye/face protection.

### **Precautionary Statements - Response**

Get medical advice/attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water and soap.

Call a doctor if you feel unwell.

Take off immediately all contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a doctor.

IF SWALLÓWED: Immediately call a doctor.

Rinse mouth.

Absorb spillage to prevent material damage.

### **Precautionary Statements - Storage**

Store locked up.

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

Store in corrosive resistant container with a resistant inner liner.

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### Other information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

# 3. Composition/information on ingredients

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### Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Paraquat dichloride	1910-42-5	90 - 99	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

### **Description of first aid measures**

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur. If breathing has

stopped, give artificial respiration. Get medical attention immediately. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. IF exposed

or concerned: Get medical advice/attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

while rinsing. Do not rub affected area. Get immediate medical attention.

**Skin contact**Get immediate medical attention. Wash off immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

**Ingestion** Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Get immediate medical attention.

Self-protection of the first aider

Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not breathe vapor or mist. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal

protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

**Symptoms** Coughing and/ or wheezing. Difficulty in breathing. May cause redness and tearing of the

eyes. Burning sensation.

Indication of any immediate medical attention and special treatment needed

5. Fire-fighting measures

**Suitable Extinguishing Media** Dry chemical, CO2, alcohol-resistant foam or water spray.

**Unsuitable extinguishing media**None known based on information supplied.

Specific hazards arising from the This product is mildly corrosive to aluminum and produces hydrogen gas which may form a

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**chemical** highly combustible gas mixture.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Do not breathe vapor

or mist. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Do not get water inside containers. Dam up. Soak up with inert absorbent material. Pick up

and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat,

drink or smoke when using this product. Do not get water inside containers.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other

materials.

# 8. Exposure controls/personal protection

#### Control parameters

### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Paraquat dichloride	-	TWA: 0.5 mg/m <sup>3</sup> respirable	IDLH: 1 mg/m <sup>3</sup>
1910-42-5		dust	TWA: 0.1 mg/m <sup>3</sup> respirable
		(vacated) TWA: 0.1 mg/m <sup>3</sup>	dust
		respirable dust Paraquat	
		(vacated) S* Paraquat	
		S*	

### Appropriate engineering controls

Showers **Engineering controls** 

Evewash stations Ventilation systems.

### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

When workers are facing concentrations above the exposure limit they must use appropriate Respiratory protection

certified respirators.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this

product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. Do not breathe vapor or mist. Contaminated work clothing should not

be allowed out of the workplace.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

**Appearance** Dark green liquid

Physical state Liquid Color Dark green Odor Pungent

**Odor threshold** No data available

Property Values Remarks • Method

4.83 @ 25 °C pН

pH (as aqueous solution) No data available Melting point / freezing point No data available Initial boiling point and boiling range No data available Flash point No data available **Evaporation rate** No data available No data available **Flammability** 

Flammability Limit in Air

Upper flammability or explosive limits No data available Lower flammability or explosive limits No data available Vapor pressure No data available Vapor density No data available

Relative density 1.120 g/cm3 @ 25°C

1.115 g/cm3 @ 40°C

Water solubility No data available Solubility(ies) No data available **Partition coefficient** No data available **Autoignition temperature** No data available **Decomposition temperature** No data available No data available Kinematic viscosity

**Dynamic viscosity** 3.75 cP @ 25°C

2.71 cP @ 40°C

Other information

Explosive properties

Oxidizing properties

No information available
VOC content
Liquid Density
No information available
Bulk density
No information available

### 10. Stability and reactivity

**Reactivity** None under normal use conditions.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

Conditions to avoid Exposure to air or moisture over prolonged periods. Incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

# 11. Toxicological information

### Information on likely routes of exposure

**Product Information** 

**Inhalation** Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on

components). May cause irritation of respiratory tract.

**Eye contact** Specific test data for the substance or mixture is not available. Causes serious eye irritation.

(based on components). May cause redness, itching, and pain.

Skin contact Specific test data for the substance or mixture is not available. Causes skin irritation. (based

on components). Toxic in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhea. Toxic if swallowed. (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing. Difficulty in breathing. Redness. May cause redness and

tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

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

 ATEmix (oral)
 243.1313 mg/kg

 ATEmix (dermal)
 327.10 mg/kg

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### ATEmix (inhalation-dust/mist) 0.055 mg/l

**Component Information** 

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ī	Paraquat dichloride 1910-42-5	= 223 mg/kg (Rat)	> 2000 mg/kg (Rat)	0.8 - 1.9 mg/m <sup>3</sup> (Rat) 4 h

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

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** May cause respiratory irritation.

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

Target organ effects Heart. Liver. Kidney. Respiratory system. Eyes. Skin. Gastrointestinal tract (GI).

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Paraquat dichloride	-	LC50: =15mg/L (96h,	-	EC50: 9.1 - 12.2mg/L
1910-42-5		Cyprinus carpio)		(48h, Daphnia magna)
		LC50: 8.5 - 19mg/L		
		(96h, Lepomis		
		macrochirus)		
		LC50: 11.0 - 19.0mg/L		
		(96h, Oncorhynchus		
		mykiss)		

Persistence and degradability No information available.

### Bioaccumulation

**Component Information** 

Chemical name	Partition coefficient	
Paraquat dichloride	-4.5	
1910-42-5		

Other adverse effects No information available.

# 13. Disposal considerations

### Waste treatment methods

Waste from residues/unused

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

# 14. Transport information

DOT

products

**ID** number

Proper shipping name Corrosive Liquid, Toxic, N.O.S. (Paraguat dichloride, Valeric acid)

8 (6.1) Hazard Class(es) Packing group Ш

Class 8 Corrosive, Division 6.1 Toxic **Hazard Label** 

<u>IATA</u>

**ID** number UN2922

Corrosive Liquid, Toxic, N.O.S. (Paraguat dichloride, Valeric acid) Proper shipping name

Hazard Class(es) 8 (6.1) Packing group Ш

Class 8 Corrosive, Division 6.1 Toxic **Hazard Label** 

<u>IMDG</u>

UN2922 **ID** number

Corrosive Liquid, Toxic, N.O.S. (Paraguat dichloride, Valeric acid) Proper shipping name

Hazard Class(es) 8 (6.1) Ш

Packing group

**Hazard Label** Class 8 Corrosive, Division 6.1 Toxic, Environmentally Hazardous

Marine Pollutant/ YES

**Environmentally Hazardous Substance** 

# 15. Regulatory information

**International Inventories** 

Contact supplier for inventory compliance status

**US Federal Regulations** 

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Paraquat dichloride - 1910-42-5	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **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).

### **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).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Paraquat dichloride 1910-42-5	-	10 lb	

### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Paraquat dichloride	X	X	X
1910-42-5			

### U.S. EPA Label Information

**EPA Pesticide Registration Number** 87290-35

# 16. Other information

NFPA Health hazards 4 Flammability 0 Instability 0 Special hazards - Halth hazards 3\* Flammability 0 Physical hazards 0 Personal protection X Chronic Hazard Star Legend \*= Chronic Health Hazard

Key or legend to abbreviations and acronyms used in the safety data sheet

## Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
Ceiling Maximum limit value \* Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database

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European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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**Revision Note** Change to Email, Emergency Telephone Number and Section 14.

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** 

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