

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:

RedEagle International LLC
5143 S. Lakeland Drive - Suite 4
Lakeland, FL 33813

EMERGENCY TELEPHONE NUMBERS:

(800) 424-9300 (CHEMTREC, transportation and spills)
(800) 222-1222 American Association of Poison Control Centers

PRODUCT NAME:

PARAQUAT 43.2 SL

CHEMICAL NAME:

Paraquat dichloride

PRODUCT USE:

Herbicide – Restricted Use

PRODUCT CODE:

EPA Reg. No. 85678-58

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200

Blue to green liquid

HEALTH HAZARDS: DANGER – PELIGRO. Fatal if inhaled or in contact with skin. Harmful to toxic if swallowed. Causes serious eye damage and severe skin irritation. Repeated or prolonged exposure may cause damage to organs.

PHYSICAL HAZARDS: Not classified.

ENVIRONMENTAL HAZARDS: Not classified.

**HAZARD STATEMENTS:**

- H330 - Fatal if inhaled.
- H302 – Harmful if swallowed.
- H319 – Causes serious eye irritation.
- H315 – Causes skin irritation.

SECTION 3 – COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS No.
Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride)	43.2	1910-42-5

SECTION 4 - FIRST AID MEASURES

IF IN EYES: 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 poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: SPEED IS ESSENTIAL. Immediate medical attention required. If available give an absorbent such as activated charcoal, bentonite, or Fuller's Earth. Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air, if person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method. Use pocket mask with one-way valve or other proper respiratory medical device. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN:

Treatment: Administer either activated charcoal (100g for adults or 2g/kg body weight in children). Note: the use of gastric lavage without the administration of an absorbent has not shown any clinical benefit. Eye splashes from concentrated material should be treated by an eye specialist after initial treatment. With the possibility of late onset corneal ulceration, it is advised that patients with Paraquat eye injuries are reviewed by an eye specialist the day after presenting. Use treatment that is appropriate for chemical burns. Intact skin is an effective barrier to Paraquat, however contact with irritated or cut skin or repeated contact with intact skin may result in poisoning.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

SECTION 5 - FIRE FIGHTING MEASURES

FLAMMABLE PROPETIES: Non-flammable

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE AND EXPLOSION HAZARD Evacuate area. When heated, vapors dangerous to health may be formed.

FIRE FIGHTING INSTRUCTIONS: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Evacuate area and fight fire from a safe distance. Dike and collect water used to fight fire to prevent environmental damage due to run off.

FIRE FIGHTING EQUIPMENT: Full firefighting turn-out gear (Bunker gear) including self-contained breathing apparatus with full face piece.

HAZARDOUS COMBUSTION PRODUCTS: Product will emit toxic fumes when heated.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS: Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of soil, surface water, or ground water. Clean up spills immediately. Observe precautions in Section 8 of this document. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills with sand, vermiculite, or other absorbent inert ingredients. Place material in a container for proper disposal.

LARGE SPILL: Dike spill using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse or disposal. Allow absorbed material to solidify and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent for disposal. Minimize use of water to prevent environmental contamination.

CAUTION: Minimize use of water to prevent runoff into municipal sewers or other open bodies of water and minimize environmental contamination. Be sure to isolate any contaminated water. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Do not inhale mists or vapors. Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing if pesticide gets inside clothing. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not reuse container.

STORAGE: Keep pesticide in original container. Keep container tightly closed when not in use. Store in a locked storage area. Avoid cross contamination with other pesticides or fertilizers during handling and storage. Store in a cool, dry place.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION
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EXPOSURE LIMITS:

COMPONENT	OSHA	ACIGH	NIOSH
Paraquat dichloride	0. mg/m ³ PEL respirable dust	0.5 mg/m ³ TLV-TWA as the cation	0.1 mg/m ³ REL respirable

ENGINEERING CONTROLS: Do not breathe vapors or mists. If specific use conditions create an environment for excessive exposure, use proper ventilation. Facilities storing or utilizing this material should be equipped with activated charcoal, an eyewash facility, and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: Protective eyewear. An emergency eyewash or water supply should be readily accessible to work area.

SKIN PROTECTION: Wear coveralls over long-sleeved shirt and long pants, chemical resistant shoes plus socks, and chemical-resistant gloves made of any waterproof material. Wear a chemical resistant apron when cleaning equipment, mixing, or loading. For overhead exposure wear chemical-resistant headgear. An emergency shower or water supply should be readily accessible to work area.

RESPIRATOR: Normally not required. If vapors or mists may exceed acceptable levels, wear NIOSH approved air-purifying respirator approved for pesticides. If there is a potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection, use positive-pressure, air-supplied respirator.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue to green liquid
Odor:	Pungent
pH:	4.0 – 6.0
Boiling Point:	Not available
Freezing Point:	Not available
Flash Point:	> 100 °C (> 212 °F)
Evaporation Rate:	No data available
Flammability:	No applicable
Flammability Limits:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Density:	No data available
Solubility:	Miscible
Partition Coefficient:	No data available
Auto-Ignition Temperature:	> 600 °C (> 1100 °F)
Decomposition Temperature:	No data available
Viscosity:	No data available
Specific Gravity:	No data available
Bulk Density:	No data available

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable under normal handling and storage conditions.
HAZARDOUS REACTION/POLYMERIZATION:	Product will not undergo polymerization.
CONDITIONS TO AVOID:	Heat, flames, sparks, elevated temperatures, direct sunlight, freezing, Potassium permanganate solution, and iron powder.
INCOMPATIBLE MATERIALS:	Avoid strong oxidizers, strong acids, strong bases, heat, and sources of ignition.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of nitrogen, carbon, chloride and other hazardous fumes.
HAZARDOUS POLYMERIZATION:	Not expected under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	
Oral LD ₅₀ (rat):	283 mg/kg
Dermal LD ₅₀ (rat):	> 2,000 mg/kg
Inhalation LC ₅₀ (rat):	< 0.0006 mg/l
Eye irritation (rabbit):	Moderate
Skin irritation (rabbit):	Moderate
Sensitization:	Not a contact sensitizer
CARCINOGEN STATUS:	
OSHA:	Not regulated
NTP:	Not listed
IARC:	Not listed

MUTAGENICITY: No information available.

CARCINOGENICITY: No component of this product present at 0.1% or greater is listed by OSHA, IARC, NIOSH or NTP.

REPRODUCTIVE TOXICITY: There was evidence of reproductive effects at doses below those causing maternal toxicity.

SECTION 12 - ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: May be harmful to aquatic life. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply where runoff might occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

FATE: No data available.

ENVIRONMENTAL HAZARDS: Harmful to aquatic life with long lasting effects.

AQUATIC TOXICITY:

96 hour EC₅₀, Bluegill – 8.5 – 19 mg/L

48 hour LC₅₀, Water flea – 2.7 – 6 mg/L

SECTION 13 - DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE DISPOSAL: Pesticide waste may be acutely hazardous. Improper disposal is a violation of Federal law. If these waste cannot be disposed of according to label instructions, contact your state Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER DISPOSAL:

Nonrefillable Container (rigid material; 5 gallons up to ≤ 250 gallons):

Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or

disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Container (> 250 gallons & Bulk):

Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix-tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

SECTION 14 - TRANSPORT INFORMATION

DOT SHIPPING DESCRIPTION: UN 2922, Corrosive liquid, toxic, n.o.s. (Paraquat dichloride), 8, 6.1, PG III

TRANSPORT HAZARD CLASS: 8, 6.1

UN NUMBER: 2922

DOT PACKING GROUP: III

SECTION 15 - REGULATORY INFORMATION

OSHA: Hazardous chemical
EPA/FIFRA: DANGER, RESTRICTED USE PESTICIDE, HAZARD TO HUMANS AND OTHER DOMESTIC ANIMALS

CERCLA REPORTABLE QUANTITY: Paraquat dichloride is not listed

SARA

302/304: RQ = 10 LB (2.4 gallons)

311/312: Acute health; Chronic health

313: Paraquat dichloride

TSCA: Exempted - solely for FIFRA regulated use.

State Right-to-Know Regulations

COMPONENT	CAS No.	CA	LA	MA	MN	NJ	PA
Paraquat dichloride	1910-42-5	X	X	X	X	X	X

CALIFORNIA PROP 65: WARNING: This product contains one or more substances known to the State of California to cause cancer and/or reproductive/developmental effects.

SECTION 16 - OTHER INFORMATION

NFPA (National Fire Protection Association) HAZARD RATINGS

HEALTH	FLAMMABILITY	REACTIVITY
3	1	0

4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers,

employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. This data sheet is not a guarantee of safety. Users are responsible for insuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.