

**MATERIAL SAFETY DATA SHEET**

Para-SHOT 3.0

MSDS DATE: 09/01/2011

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** Para-SHOT 3.0  
**SYNONYMS:** PARAQUAT CONCENTRATE  
**EPA REGISTRATION NO.:** 83529-27  
  
**MANUFACTURER:** Sharda USA LLC  
**ADDRESS:** 7217 Lancaster Pike, Suite A  
 Hockessin, DE 19707  
  
**PHONE:** (302) 635-7289  
**FAX:** (302) 635-7295  
**EMAIL:** shardain@vsnl.com  
**WEBSITE:** www.shardaintl.com  
  
**EMERGENCY PHONE:** 1(800) 222-1222  
**CHEMTREC PHONE:** 1(800) 424-9300  
  
**CHEMICAL NAME:** 1, 1'-Dimethyl-4, 4'-bipyridilium dichloride  
**CHEMICAL FAMILY:** quaternary ammonium herbicides  
**CHEMICAL FORMULA:** C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>  
**PRODUCT USE:** For use as an herbicide.  
**PREPARED BY:** Sharda USA LLC

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**

**INGREDIENT:** paraquat dichloride

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>	<u>SARA 313 REPORTABLE</u>
1910-42-5	43.2	43.2	yes
	<u>ppm</u>	<u>mg/m3</u>	
OSHA PEL-TWA:	N/A	N/A	
OSHA PEL STEL :	N/A	N/A	
OSHA PEL CEILING:	N/A	N/A	
ACGIH TLV-TWA:	N/A	0.1 mg/m3	
ACGIH TLV STEL:	N/A	N/A	
ACGIH TLV CEILING:	N/A	N/A	

**SECTION 3: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** DANGER. May be fatal if swallowed. Fatal if inhaled. Corrosive. Causes irreversible eye damage. Wear protective eyewear. Do not breathe spray mist. Wear a dust mist respirator. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin. Prolonged or frequently repeated contact may cause allergic reactions in some individuals. **IMPORTANT:** Inhalation is an unlikely route of exposure due to low vapor pressure and large spray droplet size, but mucosal irritation or nose bleeds may occur. Prolonged contact with this concentrated product can irritate your skin.

**ROUTES OF ENTRY:** Ingestion, Dermal, Absorption, Inhalation

**CARCINOGENICITY – Possible human carcinogen**

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**SECTION 4: FIRST AID MEASURES**

**FIRST AID** Contains Paraquat, a Bipyridinium Herbicide. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor IMMEDIATELY for treatment advice.</li> <li>• SPEED IS ESSENTIAL. Immediate medical attention is required. If available, give an absorbent such as activated charcoal, bentonite or Fuller's Earth.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• The odor of this product is from the stenching agent, which has been added, not from the paraquat.</li> <li>• If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**NOTE TO PHYSICIAN** Administer either activated charcoal (100g for adults or 2g/kg body weight in children) or Fuller's Earth (15% solution; 1 liter for adults or 15ml/kg body weight in children). NOTE: The use of gastric lavage without administration of an absorbent has not shown any clinical benefit. Do not use supplemental oxygen. 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 first presentation. 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.

**HOT LINE NUMBERS:**

**TRANSPORTATION EMERGENCY (CHEMTREC) 800-424-9300**

**SECTION 5: FIRE-FIGHTING MEASURES**

**FLAMMABLE LIMITS IN AIR, UPPER:** Not applicable  
 (% BY VOLUME)                      **LOWER:** Not applicable

**FLASH POINT:** Not applicable

**AUTOIGNITION TEMPERATURE:** Not applicable

**FLAMMABILITY:** Not applicable

**EXTINGUISHING MEDIA:** Water, Foam, dry chemical, carbon dioxide.

**SPECIAL FIRE FIGHTING PROCEDURES:** Direct water onto intact containers to keep them cool. Prevent use of contaminated buildings, area, and equipment until decontaminated. Foam and/or dry chemicals are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run off. Wear self-contained breathing apparatus and full fire fighting turn-out gear (Bunker gear).

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition or combustion may produce irritating and possibly toxic gases.

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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

#### **SECTION 6 NOTES:**

**Small Spill:** Absorb small spills with sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal. Scrub area with hard water detergent. Pick up wash liquid with additional absorbent and place into appropriate container for disposal.

**Large Spill:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal. Pick up wash liquid with additional absorbent and place in a disposable container. After removal, flush contaminated area thoroughly with water. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water.

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### **SECTION 7: HANDLING AND STORAGE**

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**HANDLING AND STORAGE:** Store in original container and place in a locked storage area. Do not mix or store in containers, spray tanks, nurse tanks, or such systems made of aluminum or having aluminum fittings. Store at temperatures above 32°F. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and after handling.

**OTHER PRECAUTIONS:** Do not contaminate water, food, or feed by storage or disposal.

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### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** Refer to product label.

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation, packaging and use of this product. For commercial applications and/or on-farm applications consult the product label.

**EYE PROTECTION:** Protective goggles or full face shield.

**INGESTION:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

**SKIN PROTECTION:** Long-sleeved shirt, long pants, shoes plus socks. Chemical resistant footwear and overalls. Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC), or Viton. 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.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P, or HE filter.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** 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.

**WORK HYGIENIC PRACTICES:** Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**EXPOSURE GUIDELINES:** Refer to Section 2.



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**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD:** Product disposal – Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Pesticide, mixtures, or equipment rinse water that cannot be chemically reprocessed must be disposed of according to applicable federal, state or local regulations. Contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

Container disposal – Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

RCRA HAZARD CLASS: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**SECTION 14: TRANSPORT INFORMATION**

U.S. DEPARTMENT OF TRANSPORTATION – Ground transport-NAFTA

PROPER SHIPPING NAME: Corrosive Liquid, toxic, N.O.S. (paraquat dichloride)  
 HAZARD CLASS: 8  
 ID NUMBER: UN 2922  
 PACKING GROUP: PG III  
 LABEL STATEMENT: B/L Freight Classification – Herbicides, NOI (NMC Class 92.5)

**SECTION 15: REGULATORY INFORMATION**

U.S. FEDERAL REGULATIONS

TSCA (TOXIC SUBSTANCE CONTROL ACT): The ingredients of this product are listed on the TSCA inventory or are exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):  
 SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute health hazard  
 Chronic health hazard

313 REPORTABLE INGREDIENTS: Paraquat dichloride (CAS 1910-42-5)

CA PROPOSITION 65: None

**SECTION 16: OTHER INFORMATION**

OTHER INFORMATION:

HAZARD RATINGS	NFPA	HMIS		
HEALTH:	4	3	0	MINIMAL
FLAMMABILITY:	0	0	1	SLIGHT
REACTIVITY:	0	0	2	MODERATE
			3	HIGH
			4	SEVERE

PREPARATION INFORMATION: MSDS DATE 04/18/2011  
 REVISION DATE 09/01/2011

DISCLAIMER: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. The information contained herein is given in good faith and is believed to be correct, but no warrant, express or implied is made. Consult Sharda USA LLC for further information.