

# sourcedynar

## Safety Data Sheet

### SECTION 1. IDENTIFICATION

**Product Name:** Paraquat Concentrate  
**Chemical Name:** paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride) (active)  
**EPA Registration No.:** 82542-3  
**Recommended Use:** Herbicide  
**Manufacturer:** Source Dynamics  
12230 E Del Norte  
Yuma, AZ 85367  
Customer 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 3; Acute dermal Toxicity: Category 4; Acute Inhalation Toxicity: Category 1;

**SIGNAL WORD** DANGER - POISON

#### HAZARD STATEMENTS

**DANGER.** May be fatal if swallowed. Fatal if inhaled. Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin. Do not breathe spray mist. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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.

**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.

This product is **mildly corrosive to aluminum** and produces hydrogen gas which may form a highly combustible gas mixture. Do not mix or store in containers, spray tanks, nurse tanks, or such systems made of aluminum or having aluminum fittings. The product is compatible with high density polyethylene and rubber-lined steel containers.

This product is **toxic to wildlife**.

#### PICTOGRAMS



### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Paraquat Dichloride	1910-42-5	43.2
2-amino-6-methyl-4-propyl-[1,2,4]triazolo [1,5-a]pyrimidin-5(4H)-one	27277-00-5	0.27

### SECTION 4. FIRST AID MEASURES

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

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

**Inhalation** Move person to fresh air. The odor of this product is from the stenching agent, which has been added, not from the paraquat. If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for treatment advice.

<b>Eyes</b>	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.
<b>Skin</b>	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.
<b>Note to Physician</b>	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.

## SECTION 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Carbon dioxide (CO<sub>2</sub>), Dry chemical, Foam

### Fire Fighting Instructions

Keep out of smoke. Fight fire from upwind position. Evacuate personnel to safe areas. Cool closed containers/tanks exposed to fire with water spray. Do not allow run-off from fire-fighting to enter drains or water courses. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

### Unusual Fire, Exposure and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

### Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride, possible trace amounts of phosgene, nitrogen oxides, ammonia and other toxic and noxious fumes.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Remove all sources of ignition. Wear suitable protective clothing.
<b>Methods for Cleaning Up</b>	<b>Control the spill at the source.</b> Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labeled and tightly closed container. Clean contaminated floors and objects thoroughly with detergent (e.g. Tide, Spic and Span, etc.), observing environmental regulations. Contaminated soil may have to be removed and disposed.
<b>Additional Advice</b>	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal. Do not allow product to contact vegetation. Untreated spilled material can dry to a highly irritating dust.

## SECTION 7. HANDLING AND STORAGE

### Handling Procedures

Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

### Storing Procedures

Store in a cool, dry and well ventilated place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed and out of direct sunlight. Store in original container and out of the reach of children, preferably in a locked storage area.

### Work/Hygienic Procedures

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Ventilation</b>	Control exposure levels through the use of general and local exhaust ventilation.
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## Personal Protective Equipment (PPE)

**Respiratory Protection** NIOSH-approved particulate filtering respirator equipped with N, R or P class filter media. The respirator should have a NIOSH approval number prefix TC-84A.

**Eye Protection** Use splash-proof goggles if needed to prevent liquid from getting into the eyes.

**Clothing Protection** Launder clothing after use. Wash thoroughly after handling.

**Skin Protection** Wear long sleeves and trousers to prevent skin contact, and chemical resistant gloves such as nitrile or butyl rubber.

## Other Measures

Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Dark brown liquid
<b>Physical State</b>	liquid
<b>Odor</b>	Strong pungent odor
<b>pH</b>	4 - 6 (100 %)
<b>Specific Gravity</b>	1.15 at 20 °C
<b>Water solubility</b>	miscible
<b>Flammability</b>	> 100 C
<b>Flash point</b>	> 100 °C
<b>Autoignition Temperature</b>	> 625 °C

## SECTION 10. STABILITY AND REACTIVITY

### Conditions to Avoid

Extremes of temperature and direct sunlight. Freezing. 10% Potassium permanganate solution and iron powder.

### Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, chlorine, hydrogen chloride, possible trace amounts of phosgene, nitrogen oxides, ammonia and other toxic and noxious fumes.

### Hazardous Reactions

Stable under normal conditions. Material is not known to polymerize.

## SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been performed on this product as formulated. The non-acute information pertains to the technical-grade active ingredient.

**Acute Oral Toxicity** Rat: LD50: 283 mg/kg (female)

**Acute Dermal Toxicity** Rat: LD50: > 2,000 mg/kg

**Acute Inhalation Toxicity** Rat: LC50: 0.0006 mg/l Exposure time: 4h

**Skin Irritation** Rabbit: Slight irritation.

**Eye Irritation** Rabbit: Moderately irritating.

**Sensitization** Not a contact sensitizer.

**Chronic Toxicity** Rodent studies showed signs of irritation in 21 day dermal studies. In a 2.5 year chronic study, rats showed evidence of cataracts, body weight reduction and lung effects (alveolar macrophage infiltration) at 75ppm and above. A 90 day dog diet study showed evidence of lung effects leading to alveolar collapse and death at 3 mg/kg/day. Chronic pneumonitis was seen in a 1 year dog study at 0.93 mg/kg/day and above.

**Assessment Carcinogenicity** No evidence in rat or mouse.

**Reproductive Toxicity** A three generation reproductive study showed no evidence of fertility or reproductive effects at doses below that causing maternal toxicity.

Reproductive NOEL was above 7.5 mg/kg/day, the highest dose level.

**Target Organs** Lungs, Kidneys

## SECTION 12. ECOLOGICAL INFORMATION

This product is toxic to wildlife. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Apply this product as specified on the label.

Paraquat dichloride, the active ingredient in the product, is toxic to non-target plants and crops if off-target movement occurs because it desiccates all green plant tissue. Extreme care must be taken to ensure that off-

target drift is minimized to the greatest extent possible. Refer to the local and state laws, regulations, guidelines and spray drift information contained in the "Directions for Use" section of the product labeling for proper application to avoid off-target movement. Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption. Do not apply when weather conditions favor drift from treated areas. To avoid drift, do not make aerial applications during periods of thermal inversion

### 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 liquids, toxic, n.o.s. (Paraquat dichloride 43.2%), 8 (6.1), UN 2922, PG III  
**B/L Freight Classification:** Item: 45617 [Fungicides, Herbicides, Insecticides or Rodenticides], Class 92.5

### SECTION 15. REGULATORY INFORMATION

TSCA list - Exempt

SARA Title III - Section 302/304 – Paraquat dichloride: RQ=10 lbs (2.4 gallons)

SARA Title III - Section 311/312 – Acute Health Hazard

Chronic Health Hazard

SARA Title III – Section 313 chemicals – Paraquat dichloride (43.2%) CAS # 1910-42-5 Toxic

US States Regulatory Reporting CA Prop65 – Not applicable

CERCLA Reportable Quantity – Not applicable.

### SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association): Health – 4 Flammability - 0 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.

Revision Date : 01-22-20