MATERIAL SAFETY DATA SHEET

DEVOUR

′ **(Units)** mg/m^{3*}

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION INNVICTIS CROP CARE LLC 1220 W ASH STREET, SUITE B WINDSOR, CO 80550

 PRODUCT NAME:
 DEVOUR
 EPA REG. NO.: 89167-24-89391

 CHEMICAL NAME:
 Paraquat dichloride (1,1'-dimethyl-4,4'-bipyridinium dichloride)
 CHEMICAL FAMILY: Herbicide

 Hotline Numbers:
 For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night
 Within USA and Canada: 1-800-424-9300

 Outside USA and Canada:
 +1 703-527-3887 (collect calls accepted)

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – 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 contacted may cause allergic reactions in some individuals.

3. COMPOSITION, INFO	DRMATION ON INGREDIENTS		
Chemical Ingredients:	Percentage by Weight:	CAS No.	<u>TLV</u> 0.1m
Paraquat dichloride	43.2	1910-42-5	
Other ingredients	56.8		
*Time Weighted Average			

4. FIRST AID MEASURES

If Swallowed: 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.

If Inhaled: 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. 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.

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. **FOR A MEDICAL EMERGENCY** INVOLVING THIS PRODUCT have the product container or label with you when calling a poison control center or doctor.

5. FIRE FIGHTING MEASURES

FLASH POINT (^OF/Test Method): FLAMMABLE LIMITS (LFL & UFL): EXTINGUISHING MEDIA: HAZARDOUS COMBUSTION PRODUCTS: SPECIAL FIRE FIGHTING PROCEDURES: >200°F Not established Use foam, dry chemical, carbon dioxide, water spray or fog. Toxic fumes may be emitted in a fire situation. Evacuate area and fight fire upwind from a safe distance to avoid hazardous

vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full facepiece. Full fire fighting turn-out gear (Bunker gear).

HAZARDOUS COMBUSTION PRODUCTS: Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of leak or spill, contain material and dispose as waste. Do not contaminate any body of water. Pick up spilled liquid with absorbent material and sweep up for disposal. Place it and damaged unusable containers in a landfill appropriate for non hazardous chemical waste. Check local, state and federal regulations for proper disposal. **NOTE:** Prevent spilled material from flowing onto adjacent land, or into municipal sewers and open bodies of water. Always wear proper protective equipment when working with the product.

7. HANDLING AND STORAGE

HANDLING: Wash hands after handling, and 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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE: 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. Store in a locked area, above 32°F, in original containers only. Keep container closed when not in use. Do not store near food or feed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

RESPIRATORY PROTECTION: Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit.

EYE PROTECTION: Wear chemical goggles or shielded safety glasses when handling and mixing product.

SKIN PROTECTION: Wear protective clothing: long-sleeved shirts and pants, shoes plus socks and chemical-resistant gloves. Always refer to the label of the pesticide(s) in the tank mix and follow the most restrictive requirements.

Personal Protective Equipment (PPE): Applicators and other handlers (other than mixers and loaders) must wear: Longsleeved shirt and long pants, Chemical resistant gloves – Category A (e.g. barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton. Shoes plus socks, Protective eyewear, NIOSH-

approved particulate filtering respirator equipped with N, R, or P class filter media.

Mixers and loaders must wear: Long-sleeved shirts and long pants, Chemical resistant gloves – Category A (e.g., barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton), Shoes plus socks, Chemical resistant apron, Face shield, NIOSH-approved particulate filtering respirator equipped with N, R or P class filter media.

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/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark liquid, pungent odor SPECIFIC GRAVITY (Water=1): 1.1 – 1.15 g/ml VAPOR PRESSURE: Not established PERCENT VOLATILE (by volume): Not established SOLUBILITY: MisciblepH: 4-5BULK DENSITY: 9.25 – 9.60 lbs/gal.BOILING POINT: Not establishedEVAPORATION RATE: Not established

Note: These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

10. STABILITY AND REACTIVITY

 STABILITY: Stable
 CONDITIONS TO AVOID: None Known

 IMCOMPATIBILITY: Avoid strong oxidizers or bases; mild and galvanized steel.
 HAZARDOUS POLYMERIZATION: Will not occur.

 HAZARDOUS DECOMPOSITION PRODUCTS: May emit toxic fumes if excessively heated.
 Heated.

11. TOXICOLOGICAL INFORMATION – Based on a similar formulation

Acute Oral LD50: >200 <2,000 mg/kg (female)</th>Acute Dermal LD50: >2,000 mg/kgEye Irritation: Moderate irritationSkin Irritation: Slight irritationInhalation LC50: >2.10 mg/LSkin sensitization: Not a contact sensitizerCarcinogenic Potential: None listed in OSHA, NTP, IARC, or ACGIH

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12. ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is **toxic to wildlife.** 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 contaminate water when cleaning equipment or disposing of equipment wash water.

13. DISPOSAL CONSIDERATIONS

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess, 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:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Hold container, upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION: Corrosive liquid, toxic, n.o.s. (Paraquat dichloride) DOT HAZARD CLASS: 8, (6.1) UN NUMBER: UN2922 DOT PACKING GROUP: III DOT PRIMARY/SECONDARY LABEL: 8 / None DOT PRIMARY/SECONDARY PLACARD: 8 / None

15. REGULATORY INFORMATION

NFPA RATINGS:	Least = 0	Slight = 1	Moderate = 2	High = 3	Severe = 4	
Ratings for this pr	oduct: Health -	- 2 Flamma	ability – 0 🛛 Instabilit	:y — 1	Special Hazards – None Speci	fied
SARA Title III Haza	ord Category:	Immediate <u>Y</u> Delayed <u>Y</u>	Fire Reactive	<u>N</u>	Sudden Release of Pressure	<u>N</u>

Reportable Quantity (RQ) under U.S. CERCLA: Not listed

SARA, Title III, Section 313: Yes

CA Proposition 65: Not listed

16. OTHER

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