

# MATERIAL SAFETY DATA SHEET

PGR-IV®

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

Loveland Products, Inc.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-800-301-7976  
**U.S. Coast Guard National Response Center:** 1-800-424-8802

**PRODUCT NAME:** PGR-IV®  
**CHEMICAL NAME:** Indolebutyric Acid: 1H-Indole-3-butyric acid; Gibberellic Acid: (1 $\alpha$ , 2 $\beta$ , 4 $\alpha$ , 4 $\beta$ , 10 $\beta$ )-2,4a,7-trihydroxy-1-methyl-8-methylenegibb-3-ene-1, 10-carboxylic acid 1,4a-lactone.  
**CHEMICAL FAMILY:** Plant Growth Regulator  
**EPA REG. NO.:** 51036-260-34704  
**MSDS Number:** 51036260-04b-LPI      **MSDS Revisions:** See section 16      **Date Of Issue:** 07/09/04      **Supersedes:** 02/09/04

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION –** Harmful if absorbed through the skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

This product is pale green liquid with slight sour odor.

### POTENTIAL HEALTH HAZARDS:

**EYE:** Mildly irritating to the eyes.  
**SKIN:** Prolonged or repeated skin contact may cause irritation.  
**INHALATION:** Not known to be an inhalation hazard.  
**INGESTION:** May be harmful if swallowed.

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Indolebutyric Acid	0.0028	133-32-4	none established
Gibberellic Acid	0.0030	77-06-5	none established
Inert Ingredients	99.9942		

## 4. FIRST AID MEASURES

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. 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, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further 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 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.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** Will not flash  
**FLAMMABLE LIMITS (LFL & UFL):** Not applicable  
**EXTINGUISHING MEDIA:** Foam, dry chemical, carbon dioxide, or water spray.  
**HAZARDOUS COMBUSTION PRODUCTS:** None known.  
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area. Foam or dry chemical fire-extinguishing systems are preferred to prevent environmental damage from excessive water runoff.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** If water is used to fight fire and cool the containers, contain run-off by diking to prevent contamination of water supplies.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

For small spills, absorb with an absorbent material such as sand, vermiculite or other absorbent material. Place contaminated material in appropriate containers for proper disposal. For large spills: 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. After removal, scrub the area with detergent and water and flush contaminated area thoroughly with water.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**7. HANDLING AND STORAGE**

**HANDLING:** Use only in a well-ventilated area. 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. As soon as possible after use, wash thoroughly and change into clean clothing.

**STORAGE:** Keep container closed when not in use. Keep away from children, food, feed, and drinking water. Store in a well-ventilated, dry place away from heat and out of direct sunlight. Protect from freezing. Do not contaminate water, food, or feed by storage or disposal.

**Personal Protective Equipment (PPE): Applicators and other handlers must wear:** long sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Not normally required.

**RESPIRATORY PROTECTION:** Not normally required; if vapors or mists become excessive, wear a NIOSH approved pesticide respirator with cartridges for pesticide vapors.

**EYE PROTECTION:** Chemical goggles or shielded safety glasses.

**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, shoes with socks. Wear rubber or waterproof gloves.

**OSHA PEL 8 hr TWA**  
Not listed

**ACGIH TLV-TWA**  
not listed

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Pale green liquid with slight sour odor.

**SPECIFIC GRAVITY (Water = 1):** 1.02 g/ml

**VAPOR PRESSURE:** Negligible

**PERCENT VOLATILE (by volume):** < 1%

**BULK DENSITY:** 8.51 lbs/gal.

**BOILING POINT:** 212°F/100°C

**EVAPORATION RATE:** Not established

**SOLUBILITY:** Soluble

**pH:** 4.0

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

**INCOMPATIBILITY:** Alkaline conditions and materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Temperatures above 100°F/37.8°C and below 32°F/0°C.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (rat):** >5,000 mg/kg

**Eye Irritation (rabbit):** Slight irritant

**Inhalation LC<sub>50</sub> (rat):** >4.0 mg/L (4 hr).

**Carcinogenic Potential:** Nothing listed in ACGIH, NTP, IARC, or OSHA.

**Acute Dermal LD<sub>50</sub> (rabbit):** >2,000 mg/kg

**Skin Irritation (rabbit):** Slight irritant

**Skin Sensitization (guinea pig):** Not a sensitizer

**12. ECOLOGICAL INFORMATION**

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 by cleaning of equipment or disposal of equipment wash waters.

**13. DISPOSAL CONSIDERATIONS**

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

Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site (go to <http://www.acrecycle.org/> for locations) or by reconditioning, or puncture and dispose of in a sanitary landfill or, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT

**U.S. Surface Freight Classification:** INHIBITORS, MODIFIERS OR REGULATORS, PLANT GROWTH (NMFC 101685; CLASS: 65)

Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

**15. REGULATORY INFORMATION**

**NFPA & HMIS Hazard Ratings:**

NFPA		HMIS
1 Health	0 Least	1 Health
0 Flammability	1 Slight	0 Flammability
0 Instability	2 Moderate	0 Reactivity
	3 High	H PPE
	4 Severe	

**SARA Hazard Notification/Reporting**

**SARA Title III Hazard Category:** Immediate   N   Fire   N   Sudden Release of Pressure   N    
 Delayed   N   Reactive   N  

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

**SARA, Title III, Section 313:** Not listed

**RCRA Waste Code:** Not listed.

**CA Proposition 65:** Not listed.

**16. OTHER INFORMATION**

**MSDS STATUS:** Format modified to address changes in ANSI Standard Z400.1-2004

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

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