

Material Safety Data Sheet

Product Name: Gordon's LV 400 2,4-D Weed Killer

MSDS No.: 861-2

Version No.: 012

EPA Registration No.: 2217-077

1. Basic Information:

Manufacturer: PBI/Gordon Corporation
Address: 1217 West 12th Street
City, State Zip: Kansas City, MO 64101-1407
Information Contact: Environmental, Health, & Safety Dept.
Information Telephone Number: (816)421-4070
Emergency Contact: Chemtrec
Emergency Telephone Number: (800)424-9300



2	Health
2	Flammability
0	Reactivity
B	Pers. Protection

Last Update: 7/17/00

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

2. Ingredients:

Trade Secret (ND = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z						
1928434	2,4-Dichlorophenoxyacetic acid, isooctyl (2-ethylhexyl) ester	65.5%	N	N	Y	N	Y	NI	NI	NI	
8008206	Kerosene	25.2	N	N	N	N	N	NI	NI	100 ppm	

3. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Liquid; sweet ester odor.

The International Agency for Research on Cancer (IARC) lists chlorophenoxy herbicides in its Group 2B (limited evidence for carcinogenicity in humans.) The US EPA has given the chlorophenoxy herbicides 2,4-D, 2,4-DP, MCPP, and MCPA a Class D classification (not classifiable as to human carcinogenicity.) More current 2,4-D lifetime feeding studies in rats and mice did not show carcinogenic effects and a recent World Health Organization (WHO) review of 2,4-D toxicology has concluded that 2,4-D is not a carcinogen.

First Aid Measures (Continued)

Medical Conditions Generally Aggravated by Exposure:

Asthma or skin lesions may be irritated by exposure.

Emergency First Aid Procedure:

EYES: Flush eyes with large amounts of clean water for 10-15 minutes, holding lids open. If irritation persists, seek medical attention.

SKIN: Remove contaminated clothing. Bathe and shampoo with soap and water to remove chemicals from skin and hair. If irritation persists, seek medical attention. Launder contaminated clothing separately, prior to reuse.

INHALATION: Remove victim to fresh air. Apply artificial respiration if needed. If irritation persists, seek medical attention. If severe overexposure occurs, a two-day removal from exposure is recommended.

INGESTION: Call a physician or Poison Control Center. Contains petroleum solvent. Do not induce vomiting.

Other Health Warnings:

NI

4. First Aid Measures:

Route(s) of Entry:

Contact, Inhalation, Ingestion.

Health Hazards (Acute and Chronic):

EYES: Contact may cause irritation and burning.

SKIN: Contact may be moderately irritating to the skin.

INHALATION: May be irritating or harmful to the respiratory system.

INGESTION: May be irritating to gastrointestinal tract. If product is swallowed, it is an aspiration hazard; can enter and damage the lungs.

CHRONIC: Repeated or prolonged overexposure may effect the skin, liver, kidneys, muscular or gastrointestinal systems.

Signs and Symptoms:

Inhalation may cause a burning sensation, with coughing and dizziness.

Severe overexposure by inhalation may cause Central Nervous System depression.

5. Fire Fighting Measures:

Flash Point: 154°F **F.P. Method:**

Lower Explosive Limit: NI

Upper Explosive Limit: NI

Fire Extinguishing Media:

Foam, CO₂, Dry chemical, Water.

Special Fire Fighting Procedures:

Wear positive-pressure breathing apparatus and full protective clothing. Product may be ignited by heat, sparks, flames.

Unusual Fire and Explosion:

Prevent contamination of surface water from fire-control runoff. If pollution occurs, contact local authorities.

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6. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Do not touch spilled material. See Section 8 for Personal Protective Equipment. Contain and collect the spilled material using an inert absorbent. Collect into drums for disposal; cover and label drums. Wash the area with water if possible.

7. Handling and Storage:

Precautions to be Taken:

Store in locked area inaccessible to children and pets. Store in original container. Keep from freezing. Keep from food, feed, seeds, fertilizers and other herbicides, and agricultural chemicals, to prevent cross-contamination.

PHYSICAL OR CHEMICAL HAZARDS: Do not use or store near heat or open flame.

Other Precautions:

Containers greater than 1 gallon but less than 5 gallons: Mixers and loaders who do not use a mechanical system (probe and pump) to transfer the contents of this container must wear coveralls or a chemical-resistant apron in addition to the other required PPE.

Containers of 5 gallons or more: Do not open-pour product from this container. A mechanical system (such as a probe and pump or spigot) must be used for transferring the contents of this container. If the contents of a non-refillable pesticide container are emptied, the probe must be rinsed before removal. If the mechanical system is used in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

When handlers use 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.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Good local ventilation, or meCRESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a NIOSH approved respirator with any R, P or HE filter. hanical exhaust.

Personal Protective Equipment:

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or Viton, shoes plus socks, and protective eyewear.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. After each day of use, clothing or PPE must not be reused until it has been cleaned.

PROTECTIVE CLOTHING: Wear long sleeved shirt, long pants, socks, shoes, and chemical resistant gloves.

EYE PROTECTION: Safety glasses or goggles are recommended.

RESPIRATORY PROTECTION: If exposure limits may be exceeded, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C),

Exposure Controls/Personal Protection (Continued)

or a NIOSH approved respirator with any R, P or HE filter.

9. Physical and Chemical Properties:

Boiling Point: 275°F

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): NI

Vapor Pressure (mm Hg): NI

Vapor Density (Air = 1): NI

Specific Gravity (H2O = 1): 1.03610

Solubility in Water: Emulsifiable.

Appearance and Odor: Liquid; sweet ester odor.

Other Information:

Density: 8.45--8.65 pounds/gallon

10. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

None known.

Decomposition/By-Products:

If burned, gases such as HCl, CO2 and organochlorides may be liberated.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

EYES: Contact may cause irritation and burning.

SKIN: Contact may be moderately irritating to the skin.

INHALATION: May be irritating or harmful to the respiratory system.

INGESTION: May be irritating to gastrointestinal tract. If product is swallowed, it is an aspiration hazard; can enter and damage the lungs.

CHRONIC: Repeated or prolonged overexposure may effect the skin, liver, kidneys, muscular or gastrointestinal systems.

12. Ecological Information:

Do not apply when weather conditions favor drift from target area. Use with care when applying in areas adjacent to any body of water. Do not contaminate water intended for irrigation or domestic purposes. This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. For terrestrial uses, 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 disposing of equipment washwater.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

13. Disposal Considerations:

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Disposal Considerations (Continued)

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law and may contaminate groundwater. 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: For Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke. For Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Cover and mark containers. Dispose of DOT drum, waste water, and any other waste according to local, state and Federal regulations.

14. Transport Information:

The following guidelines apply for domestic ground transport. If shipping by air or ocean, please contact our Transportation Department.

Freight Class: Herbicides, NOI - NMFC Class #50320

Proper Shipping Name:

For package sizes less than 27 gallons: product is non-regulated.

For package sizes 27 gallons or greater: Environmentally Hazardous Substances, Liquid, N.O.S., 9, UN3082, PGIII, RQ (2,4-D)

If shipped in bulk containers (greater than 119 gallons), this product is a Marine Pollutant.

When shipped as a Hazardous Material, label required is Class 9 (Miscellaneous). Placards required on bulk shipments only.

15. Regulatory Information:

OSHA STATUS: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS: This product is exempt from TSCA Regulation under FIFRA Section 3(2)(B)(ii) when used as a pesticide.

CERCLA REPORTABLE QUANTITY: 152 pounds of the formulation which contains 100 pounds of 2,4-D 2-ethylhexyl ester

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health

Hazard, Delayed Health Hazard

SECTION 313 TOXIC CHEMICALS: 2,4-D 2-ethylhexyl ester CAS# 1928-43-4

RCRA STATUS: When discarded in its purchased form, this product is a listed RCRA hazardous waste and should be managed as a hazardous waste. (40 CFR Part 261.20-24)

16. Other Information:

REASON FOR ISSUE: To revise MSDS to the ANSI Z400.1-1998 format

NOTE: NI means not indicated.

The information and statements in this Material Safety Data Sheet are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional

Other Information (Continued)

information may be necessary or desirable depending on particular, exceptional or variable conditions or circumstances of use or storage or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you and must make independent determinations of the suitability of the information for your particular circumstances or conditions and of the completeness of the information available from all sources to assure both the proper use of the material described herein and the safety and health of employees.