

Material Safety Data Sheet

Product Name: Gordon's Cleanout Brush and Stump Spray

MSDS No.: 783-2

Version No.: 010

EPA Registration No.: 2217-775

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: 12/8/2003

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 SUB Z	OSHA PEL	ACGIH TLV	Other Limits
			NTP							
618446529	(R)(+)-2-(2,4-Dichlorophenoxy propionic acid), isooctyl (2-ethylhexyl) ester	4.78%	N	N	Y	N	N	NI	NI	NI
1928434	2,4-Dichlorophenoxyacetic acid, isooctyl (2-ethylhexyl) ester	9.74%	N	N	Y	N	Y	NI	NI	NI
1918009	3,6-Dichloro-o-anisic acid (Dicamba)	1.65%	N	N	N	N	Y	NI	NI	NI

3. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Brown liquid; ester-type odor.

Moderate irritant to eyes, skin, respiratory and gastrointestinal systems.

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.

4. First Aid Measures:

Route(s) of Entry:

Skin contact, Inhalation, Ingestion.

Health Hazards (Acute and Chronic):

EYES: May cause substantial but temporary eye damage.

SKIN: Moderately irritating to the skin; Repeated or prolonged contact may result in absorption through the skin.

INHALATION: Moderately irritating to the mucous membranes.

INGESTION: May be irritating to the respiratory tract.

Signs and Symptoms:

Inhalation may cause burning in the chest, with coughing and dizziness.

Medical Conditions Generally Aggravated by Exposure:

Individuals with asthma, chronic skin disease or known sensitivity to

First Aid Measures (Continued)

chlorophenoxy compounds should either avoid using them or take strict precautions to avoid contact. (respirator, gloves, etc.)

Emergency First Aid Procedure:

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

IF SWALLOWED: Drink promptly a large quantity of milk, eggwhites, gelatin solution or if these are not available, large quantities of water. Avoid alcohol. Do not induce vomiting. Get medical attention.

INHALATION: Remove victim to fresh air. Apply artificial respiration if needed. If any symptoms of illness occur during or following inhalation of spray, remove victim from contact with the material for at least 2-3 days, and use respiratory protection for future contact with this type of material.

Other Health Warnings:

NI

5. Fire Fighting Measures:

Flash Point: >200°F **F.P. Method:** PM Closed Cup

Lower Explosive Limit: NI

Upper Explosive Limit: NI

Fire Extinguishing Media:

Foam, CO2, dry chemical.

Special Fire Fighting Procedures:

Wear positive-pressure breathing apparatus and full protective clothing. Fight fire from maximum distance. Stay up-wind and out of low areas.

Unusual Fire and Explosion:

Burning may produce irritating or poisonous gases. Runoff from fire control area or dilution water can cause pollution. If surface water is

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Fire Fighting Measures (Continued)

contaminated, contact local authorities.

6. Accidental Release Measures:

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

See Section 8 for Personal Protective Equipment. Do not touch spilled material. Contain and absorb spilled material on Dri-Rite, sand or other inert absorbent. Collect into drums; cover and label for disposal. Flush area with water if possible.

7. Handling and Storage:

Precautions to be Taken:

Do not contaminate water, food, or feed by storage or disposal. STORAGE: Keep from freezing. Store in original container in a locked storage area inaccessible to children and pets.

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

Other Precautions:

ENGINEERING CONTROL STATEMENTS -

Containers over 1 gallon and less than 5 gallons: Persons engaged in open pouring of this product must also wear coveralls or a chemical resistant apron.

Containers of 5 gallons or more: Do not open-pour product from this container. A mechanical system (such as 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.

8. Exposure Controls/Personal Protection:

Ventilation Requirements:

Good local ventilation is recommended; mechanical ventilation may be necessary if exposure limits may be exceeded.

Personal Protective Equipment:

FOR INDUSTRIAL SITES ONLY -

Clothing Requirement Statements: When mixing, loading, or applying this product, or repairing or cleaning equipment used with this product, wear eye protection (face shield or safety glasses), chemical resistant gloves, long-sleeved shirt, long pants, socks and shoes. It is recommended that safety glasses include front, brow and temple protection. For aerial applicators in an enclosed cockpit and applicators applying this product from a tractor that has a completely enclosed cab, eye protection is not required.

Personal Hygiene Statements: Wash hands, face and arms with soap and water as soon as possible after mixing, loading, or applying this product. Wash hands, face and arms with soap and water before eating, smoking or drinking. Wash hands and arms before using toilet. After work, remove all clothing and shower using soap and water. Do not reuse clothing worn during the previous day's mixing and loading or application of this product without cleaning first. Clothing must be kept and washed separately from other household laundry. Remove saturated clothing as soon as possible and shower.

FOR TURF SITES ONLY -

Clothing Requirement Statements: When using this product, wear long-sleeved shirt, long pants, socks, shoes, chemical resistant gloves and eye protection. It is recommended that safety glasses include front brow and temple protection.

Personal Hygiene Statements: After using this product, rinse gloves before removing; remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower.

RESPIRATORY PROTECTION: If exposure limits may be exceeded,

Exposure Controls/Personal Protection (Continued)

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.

9. Physical and Chemical Properties:

Boiling Point: 240°F

Melting Point: NI

Evaporation Rate (Butyl Acetate = 1): >1

Vapor Pressure (mm Hg.): NI

Vapor Density (Air = 1): >1

Specific Gravity (H2O = 1): 0.90230

Solubility in Water: Emulsifiable

Appearance and Odor: Brown liquid; ester-type odor

Other Information:

pH: 2.58 (5% by volume of product mixed in deionized water)

Viscosity: 2.6 cp at 100°F

Density: 7.51 pounds/gallon

10. Stability and Reactivity:

Stability:

Stable.

Incompatibility (Materials to Avoid):

None known.

Decomposition/By-Products:

May produce gases such as HCl, organo chlorides, nitrogen oxides, and carbon monoxide when burning.

Hazardous Polymerization:

Will not occur.

11. Toxicological Information:

Dermal LD50: >2000 mg/kg body weight.

Inhalation LC50: >5.24 mg/L

Oral LD50: 3464 mg/kg body weight.

12. Ecological Information:

ENVIRONMENTAL HAZARDS:

This product is toxic to aquatic invertebrates. Drift or runoff may adversely affect aquatic invertebrates and nontarget plants. 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. When cleaning equipment, do not pour the washwater on the ground; spray or drain over a large area away from wells and other water sources. Do not apply when weather conditions favor drift from target area. Do not contaminate domestic or irrigation waters.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D and 2,4-DP have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D and 2,4-DP 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.

If spills occur, collect the material and dispose of by following disposal instructions on this label.

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13. Disposal Considerations:

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.

14. Transport Information:

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

Freight Class: Herbicides, NOI - NMFC #50320

In our current available sizes, this product does not qualify as a Hazardous Material.

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: 1026 pounds of the formulation which contains 100 pounds of 2,4-D isooctyl (2-ethylhexyl) ester

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: None

SECTION 311/312 HAZARD CATEGORIES: Immediate Health Hazard, Delayed Health Hazard, Fire Hazard

SECTION 313 TOXIC CHEMICALS: Isooctyl (2-ethylhexyl) ester of 2,4-Dichlorophenoxyacetic acid, CAS# 1928-43-4, Dicamba, CAS# 1918-00-9

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 261.20-24)

16. Other Information:

REASON FOR ISSUE: To add the CAS No. for the 2,4-DP 2-ethylhexyl ester plus optical isomer.

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 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.