

# SAFETY DATA SHEET

An Employee-Owned Company

Issue Date 07-Apr-2015 Revision Date 19-Jun-2017 Version 4

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier** 

Product Name Gordon's Brush Killer

Other means of identification

Product Code PBI FP 888-2 EPA Pesticide Registration Number 2217-543

Recommended use of the chemical and restrictions on use

Recommended Use Herbicide.

**Uses advised against**No information available.

Details of the supplier of the safety data sheet

Supplier Manufacturer Company Name

PBI Gordon Corporation
1217 West 12th Street
1217 West 12th Street
1217 West 12th Street
Kansas City, MO 64101
Kansas City, MO 64101
Kansas City, MO 64101

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

# **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Serious eye damage/eye irritation	Category 1
Skin Sensitization	Category 1
Chronic Aquatic Toxicity	Category 2
Flammable liquids	Category 3

### Label elements

# **Emergency Overview**

# Danger

#### Hazard statements

Harmful if swallowed. Causes serious eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Flammable liquid and vapor.



Appearance Liquid Physical state Liquid Odor Amines

#### **Precautionary Statements - Prevention**

- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Contaminated work clothing should not be allowed out of the workplace
- Avoid release to the environment
- Keep away from heat/sparks/open flames/hot surfaces. No smoking
- · Keep container tightly closed

#### **Precautionary Statements - Response**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If skin irritation or rash occurs: Get medical advice/attention
- · Wash contaminated clothing before reuse
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- In case of fire: Use CO2, dry chemical, or foam for extinction
- Collect spillage

#### **Precautionary Statements - Storage**

· Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

· Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Have the product label with you when calling a poison control center or doctor or going in for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.

The low flash point of this product is due to a minor component in the mixture. Based on independent laboratory testing of similar products, this product would not sustain combustion as specified in DOT Regulation 49 CFR 173 Appendix H; however OSHA HCS 2012 flammable classifications are solely based on tested mixture flash points and boiling points.

#### Other Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS. Number	Weight %
2,4-D, dimethylamine salt	2008-39-1	25.93
MCPP-p Dimethylamine Salt	66423-09-4	6.93
Dimethylamine dicamba	2300-66-5	2.76

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret

# 4. FIRST AID MEASURES

### First aid measures

General advice If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

**Skin Contact**Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician.

**Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Call a physician.

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** May cause sensitization of susceptible persons. Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use. Foam. Carbon dioxide (CO2). Dry chemical. Water spray (fog).

#### Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization by inhalation and skin contact. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal precautions**Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions** 

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into

surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to

properly labeled containers. Soak up with inert absorbent material. Dam up.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not

eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust

ventilation.

Amines

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep in properly labeled containers.

Acids. Incompatible materials

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4-D, dimethylamine salt	TWA: 10 mg/m³ inhalable fraction	TWA: 10 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> , TWA: 10 mg/m <sup>3</sup>
2008-39-1	S*		

NIOSH IDLH Immediately Dangerous to Life or Health

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 Other Information

(11th Cir., 1992).

Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Wear protective gloves and protective clothing. Wear long-sleeved shirt, long pants, socks Skin and body protection

and shoes.

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved Respiratory protection

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

> > Odor

provided in accordance with current local regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular

cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Liquid Liquid **Appearance** 

Color Brown Odor threshold

No information available

**Property** Remarks • Method Values

pН 7.5-8.5 Melting point/freezing point <35 °F

100 °C / 212 °F Boiling point / boiling range Flash point 58 °C / 137 °F

< 1 **Evaporation rate** 

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure <17 mm Hg@20°C

Vapor density >1 1.1073

**Specific Gravity** Water solubility

Soluble in water Solubility in other solvents No information available

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Partition coefficient No information available No information available **Autoignition temperature Decomposition temperature** No information available Oxidizing properties No information available

**Other Information** 

**Density** 9.2215 pounds/gallon

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical stability**

Stable.

### **Possibility of Hazardous Reactions**

None under normal processing.

### **Hazardous polymerization**

Will not occur.

### Conditions to avoid

Keep from freezing.

# Incompatible materials

Acids.

#### **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions. Hydrogen chloride. Organochlorides. Nitrogen oxides (NOx). Carbon monoxide.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

### **Product Information**

Inhalation No data available.

Eye contact No data available.

**Skin Contact** See "Numerical measures of toxicity-product information" in this section.

See "Numerical measures of toxicity-product information" in this section. Ingestion

Chemical Name Oral LD50		Dermal LD50	Inhalation LC50
2,4-D, dimethylamine salt 2008-39-1	= 625 mg/kg ( Rat )	= 2115 mg/kg ( Rabbit )	-
	= 1267 mg/kg (Rat) = 2629 mg/kg	> 2 g/kg(Rabbit)	-
2300-66-5	(Rat)		

# Information on toxicological effects

**Symptoms** No information available.

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity No information available. No information available.

Carcinogenicity

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

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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. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
2,4-D, dimethylamine salt 2008-39-1		Group 2B		
MCPP-p Dimethylamine Salt 66423-09-4		Group 2B		

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic toxicity Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated

exposure

**Aspiration hazard** No information available.

Numerical measures of toxicity - Product Information

**Unknown Toxicity** 7 % of the mixture consists of ingredient(s) of unknown toxicity

Oral LD50 > 2240 1550 mg/kg (male rats) (female rats)

Dermal LD50 > 2010 mg/kg (rabbit)

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1928 mg/kg

### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Toxic to aquatic life with long lasting effects

7% of the mixture consists of components(s) of unknown hazards to the aquatic environment

# Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

# Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container, unless specified by the manufacturer.

**US EPA Waste Number**D001 See Section 2: Hazards not otherwise classified (HNOC)

### 14. TRANSPORT INFORMATION

<u>DOT</u>

Proper shipping name For package sizes less than 41.76 gallons: product is non-regulated.

For package sizes 41.76 gallons or greater: UN3082, Environmentally Hazardous

Substances, Liquid, N.O.S., 9, PGIII, RQ (2,4-D)

**Description** The following guidelines apply for domestic ground transport. If shipping by air or ocean,

please contact our Transportation Dept.

 ${\tt PESTICIDES,\,NOI,\,INCLUDING\,DEFOLIANTS,\,FUNGICIDES,\,HERBICIDES,\,OR}$ 

INSECTICIDES NMFC 155050-6

If shipped in bulk conatiners (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

#### **U.S. EPA Label Information**

**EPA Pesticide Registration Number** 2217-543

## Federal Insecticide, Fungicide, Rodenticide Act Regulations

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### **EPA Pesticide Label**

Danger. Keep out of the reach of children. Corrosive. Causes irreversible eye damage. Causes skin irritation. Do not get into eyes, on skin or clothing. Harmful if absorbed through skin. Harmful if swallowed or inhaled. Avoid exposure to spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

### **International Inventories**

TSCA	Not Listed
DSL/NDSL	Not Listed
EINECS/ELINCS	Not Listed
ENCS	Not Listed
IECSC	Not Listed
KECL	Not Listed
PICCS	Not Listed
AICS	Not Listed

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
2,4-D, dimethylamine salt				Х			Х		Х	Х
Dimethylamine dicamba				Х		Χ				Х

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Dimethylamine dicamba - 2300-66-5	1.0

# SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard Yes
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
2,4-D, dimethylamine salt	100 lb		RQ 100 lb final RQ
2008-39-1			RQ 45.4 kg final RQ

## **US State Regulations**

#### **U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Dimethylamine dicamba	X		
2300-66-5			

### International Regulations

Mexico - Grade

Moderate risk, Grade 2

# **16. OTHER INFORMATION**

<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X

#### Disclaimer

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**End of Safety Data Sheet**