

# SAFETY DATA SHEE

An Employee-Owned Company

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Version

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

**Product identifier** 

**Product Name** 

VESSEL® (2 x 2.5 Gal.)

Other means of identification

**Product Code** 

PBI FP 9911123

EPA Pesticide Registration Number 2217-656-72112

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

Manufacturer

PBI Gordon Corporation 1217 West 12th Street

Kansas City, MO 64101

Company Name

PBI Gordon Corporation 1217 West 12th Street

Kansas City, MO 64101

Emergency telephone number

**Emergency Telephone** 

**PBI** Gordon Corporation

1217 West 12th Street

Kansas City, MO 64101

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 toxicity - Oral	Category 4		
Acute toxicity - Dermal	Category 4		
Serious eye damage/eye irritation	Category 1		
Skin sensitization	Category 1		

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.

### Label elements

### **Emergency Overview**

### Danger

**Hazard statements** 

Harmful if swallowed. Harmful in contact with skin. Causes serious eye damage. May cause an allergic skin reaction.



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
- 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
- Call a POISON CENTER or doctor/physician if you feel unwell
- · Wash contaminated clothing before reuse
- · If skin irritation or rash occurs: Get medical advice/attention
- 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

### 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

	CAS No.	Weight-%
Chemical Name		30.56
2,4-D, dimethylamine salt	2008-39-1	
MCPP DMA Salt	66423-09-4	8.17
The state of the s	2300-66-5	2.77
Dimethylamine dicamba		II to do accept

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

# 4. FIRST AID MEASURES

### First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). If symptoms persist, call a physician.

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 contaminated clothing before reuse. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes. 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. Artificial respiration and/or oxygen may be necessary. Move to fresh air in case of accidental

inhalation of vapors. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a

physician immediately.

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 Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Use personal protective equipment as required. Keep people away from and upwind

of spill/leak.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains, Do

not flush into surface water or sanitary sewer system. 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

Pick up and transfer to properly labeled containers. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharges. Use with local exhaust ventilation, Use personal protective

equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated

place.

Incompatible materials

Acids.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Exposure Guidelines

ACGIH TLV	OSHA PEL	NIOSH IDLH
TWA: 10 mg/m³ inhalable fraction	TWA: 10 mg/m <sup>3</sup>	IDLH: 10 mg/m³, TWA: 10 mg/m³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information

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

(11th Cir., 1992).

#### Appropriate engineering controls

**Engineering Controls** 

Local and General Ventilation.

### Individual protection measures, such as personal protective equipment

Eye/face protection

Tight sealing safety goggles. Face protection shield.

Skin and body protection

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

and shoes.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

**General Hygiene Considerations** 

When using do not eat, drink or smoke. 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

**Appearance** 

Liquid

Odor

Amines

Color

Brown

Odor threshold

No information available

Property

Values 7.5-8.5

Remarks • Method

Pensky-Martens Closed Cup (PMCC)

Melting point/freezing point

Boiling point / boiling range

Flash point

**Evaporation rate** 

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit: Lower flammability limit:

Vapor pressure Vapor density

**Specific Gravity** Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature

**Decomposition temperature** Oxidizing properties

Other Information

<35 °F

100 °C / 212 °F

54 °C / 129 °F

< 1

No information available

No information available No information available

<17 mm Hg

>1 1.1265

Soluble in water

No information available No information available No information available No information available No information available

9.3812 pounds/gallon

### Density

## 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

Extremes of temperature and direct sunlight.

### **Incompatible materials**

Acids.

### **Hazardous Decomposition Products**

May emit toxic fumes under fire conditions. Hydrogen chloride. 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.

Ingestion

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

### Information on toxicological effects

**Symptoms** 

No information available.

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

Sensitization

No information available. No information available.

Germ cell mutagenicity Carcinogenicity

No information available.

Reproductive toxicity

No information available. No information available.

STOT - single exposure STOT - repeated exposure

No information available.

Chronic toxicity

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

exposure.

**Target Organ Effects** 

Eyes, Respiratory system, Skin.

Aspiration hazard

No information available.

### Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 

9% of the mixture consists of ingredient(s) of unknown toxicity

Oral LD50 Dermal LD50 > 1500 mg/kg > 2000 mg/kg

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

ATEmix (inhalation-gas)

94902 mg/L

ATEmix (inhalation-dust/mist)

20.3 mg/L

### 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

9% 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 U240 See Section 2: Hazards not otherwise classified (HNOC)

### 14. TRANSPORT INFORMATION

DOT

Proper shipping name For package sizes less than 41.32 gallons: product is non-regulated.

For package sizes 41.32 gallons or greater: UN3082, Evironmentally 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.

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 2217-656-72112

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. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### 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				X			Х		Х	X
Dimethylamine dicamba				X		Х				X

### 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 Chronic Health Hazard Yes 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 2008-39-1	100 lb		RQ 100 lb final RQ 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				

### International Regulations

Mexico - Grade

Moderate risk, Grade 2

### **16. OTHER INFORMATION**

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and Chemical Properties -

HMIS Health hazards 2 Flammability 1 Physical hazards 0 Personal protection X

### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of PBI Gordon Corporation's knowledge, information and belief at the date of this publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process, unless specified in the text. PBI GORDON CORPORATION MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. Given the variety of factors that can affect the use and application of this product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Each user is also responsible for evaluating the conditions of use and designing the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. PBI Gordon Corporation assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

**End of Safety Data Sheet**