

# SAFETY DATA SHEET

An Employee-Owned Company

Issue Date 02-Dec-2014 Revision Date 11-Sep-2019 Version 1

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

Product identifier.

Product Name Liquid Weed & Feed 2 15-0-0

Other means of identification

Product Code PBI FP 7311072
EPA Pesticide Registration Number 2217-916
Product Size 4/1 U.S. Gal.

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 Address Company Name Manufacturer

PBI-Gordon Corporation
P.O. Box 860350
Shawnee, KS 66286
Shawnee, KS 66286
Shawnee, KS 66286

Emergency telephone number

24 Hour Emergency Phone Number 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 dermal toxicity	Category 4
Serious eye damage/eye irritation	Category 2B
Chronic Aquatic Toxicity	Category 3

#### Label elements

#### **Emergency Overview**

### Signal word

Warning

### Hazard statements

- · Harmful in contact with skin
- Causes eye irritation
- Harmful to aquatic life with long lasting effects



Appearance Liquid Physical state Liquid Odor Amines

# **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

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Wear protective gloves/protective clothing/eye protection/face protection

# **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

#### **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

Not applicable.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS-No	Weight-%
2,4-D, dimethylamine salt	2008-39-1	4.51
MCPP-p Dimethylamine Salt	66423-09-4	2.33
Trade Secret	Trade secret	0-1*

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

### 4. FIRST AID MEASURES

#### Description of first aid measures

**General advice** Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/vapors/spray.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open

while rinsing. Do not rub affected area. Call a physician if irritation persists.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. If symptoms

persist, call a physician.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**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** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Wear personal protective clothing

(see section 8). Avoid contact with skin, eyes or clothing.

# Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

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### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

<u>Suitable Extinguishing Media</u> Water. Carbon dioxide (CO2). Foam.

<u>Unsuitable extinguishing media</u> No information available.

Specific hazards arising from the

<u>chemical</u>

In the event of fire and/or explosion do not breathe fumes. 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.

Special protective equipment for

fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. 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

**Other information** Refer to protective measures listed in Sections 7 and 8.

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**Use personal protective equipment as required. Dam up. Soak up with inert absorbent

material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer

to properly labeled containers.

### 7. HANDLING AND STORAGE

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. In case of insufficient ventilation, wear suitable respiratory equipment. Take off

contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Keep from freezing. Keep in properly labeled containers.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

#### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2,4-D, dimethylamine salt 2008-39-1	TWA: 10 mg/m³ inhalable fraction S*	TWA: 10 mg/m <sup>3</sup>	IDLH: 10 mg/m³, TWA: 10 mg/m³
Trade Secret	STEL: 15 ppm TWA: 5 ppm	TWA: 10 ppm TWA: 18 mg/m <sup>3</sup> (vacated) TWA: 10 ppm (vacated) TWA: 18 mg/m <sup>3</sup>	IDLH: 500 ppm TWA: 10 ppm TWA: 18 mg/m³

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 Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles.

**Hand protection** Chemical resistant gloves.

**Skin and body protection** 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 Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Color Brown
Odor Amines

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 8.0 Melting point/freezing point <32 °F

Boiling point / boiling range > 100 °C / 212 °F

Flash point > 94 °C / 201 °F Pensky-Martens Closed Cup (PMCC)

Evaporation rateNo data availableNone knownFlammability (solid, gas)No data availableNone knownFlammability Limit in AirNone known

Upper flammability limit:
Lower flammability limit:
Vapor pressure

No data available
No data available
<17 mm Hg

Vapor density >1 Specific Gravity 1.1178

Water solubility Soluble in water

Solubility in other solventsNo data availableNone knownPartition coefficientNo data availableNone knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNo data availableNone known

Other Information

Oxidizing properties
Liquid Density
Sulk density
No information available
9.3091 pounds/gallon
No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No information available.

### **Stability**

Stable

### Possibility of hazardous reactions

None under normal processing.

# **Hazardous polymerization**

Will not occur.

### **Conditions to avoid**

Keep out of reach of children.

### **Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

# **Hazardous decomposition products**

May emit toxic fumes under fire conditions. Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx). Hydrogen chloride.

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Product Information**

**Inhalation** May be harmful if inhaled.

**Eye contact** Causes eye irritation.

**Skin contact** May cause irritation. May be absorbed through the skin in harmful amounts. Harmful in

contact with skin.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be

harmful if swallowed.

### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-D, dimethylamine salt 2008-39-1	= 625 mg/kg ( Rat )	= 2115 mg/kg ( Rabbit )	-
Trade Secret	= 698 mg/kg(Rat)	= 3900 mg/kg (Rat)	= 4540 ppm (Rat) 6 h

# Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

**Acute toxicity** 

### Numerical measures of toxicity - Product Information

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

ATEmix (inhalation-gas) 12383 mg/L

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#### **Unknown Toxicity**

50 % of the mixture consists of ingredient(s) of unknown toxicity

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

LD50 Oral > 5000 mg/kg body weight (rat)
LD50 Dermal > 2000 mg/kg body weight (rabbit)

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

**Skin corrosion/irritation** May cause skin irritation.

Serious eye damage/eye irritation Causes eye irritation.

Respiratory or skin sensitization Not a skin sensitizer.

Germ cell mutagenicity 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 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	-	Group 2B	-	-
2008-39-1				
MCPP-p Dimethylamine Salt	-	Group 2B	-	-
66423-09-4		-		

#### Legend

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Target Organ Effects Eyes, Respiratory system, Skin.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Trade Secret	9: 96 h Pseudokirchneriella	210: 96 h Poecilia reticulata	EC50 = 26.8 mg/L 15 min	88.7: 48 h Daphnia magna
	subcapitata mg/L EC50	mg/L LC50 static 111 - 125:		Straus mg/L EC50
		96 h Oncorhynchus mykiss		
		mg/L LC50 120: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 static 127 - 349: 96 h		
		Poecilia reticulata mg/L		
		LC50 semi-static 396: 96 h		
		Brachydanio rerio mg/L		
		LC50 static		

<u>Persistence and degradability</u> No information available.

<u>Bioaccumulation</u> No information available.

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

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

regulations.

**Contaminated packaging** Do not reuse empty containers.

### 14. TRANSPORT INFORMATION

Note: Products under 238 gallons not regulated by DOT. Below are

designations for products over 238 gallons. See RQ

DOT

**UN/ID no.** UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing group III

Reportable Quantity (RQ) 2,4-D, dimethylamine salt: RQ (lb)= 2217.00= 238 gallons

**Special Provisions** 8, 146, 173, 335, IB3, T4, TP1, TP29

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D, dimethylamine salt),

9, III

<u>TDG</u>

UN/ID no. UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing group III

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D, dimethylamine salt),

9, III

MEX

UN/ID no. UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9 Special Provisions 274, 331, 335

Packing group III

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D, dimethylamine salt),

9, III

ICAO (air)

UN/ID no. UN3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard class 9
Packing group III

Special Provisions A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D, dimethylamine salt),

9, III

<u>IATA</u>
Limited quantity applies with an inner packaging less than 5 L or gross package weight less

than 30 kg.

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es) 9

Packing group

Special Provisions A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D, dimethylamine salt),

9, III

IMDG Limited quantity applies with an inner packaging less than 5 L or gross package weight less

than 30 kg.

UN number UN3082

**UN proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es)

Packing group

EmS-No.

Special Provisions

9

III

F-A, S-F

274, 335, 969

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (2,4-D, dimethylamine salt), 9,

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# 15. REGULATORY INFORMATION

### U.S. EPA Label Information

#### **EPA Pesticide Registration Number** 2217-916

# 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**

Caution

Keep out of the reach of children PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves made of any waterproof material. Environmental Hazards: This pesticide is toxic to fish and aquatic invertebrates and may adversely affect non-target plants. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

### **International Inventories**

Not Listed **TSCA DSL/NDSL** Not Listed Not Listed **EINECS/ELINCS** Not Listed **ENCS 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

#### **US Federal Regulations**

Revision Date 11-Sep-2019

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **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).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trade Secret	1000 lb	-	-	X

#### **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	Extremely Hazardous Substances RQs
2,4-D, dimethylamine salt 2008-39-1	100 lb	-
Trade Secret	1000 lb	-

# **US State Regulations**

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

**US State Regulations** 

Chemical name	New Jersey	Massachusetts	Pennsylvania
Trade Secret	X	X	X

16. OTHER INFORMATION					
NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical	
NITA	Health Hazarus 2	i lailillability	instability 0	Properties -	
<b>HMIS</b>	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X	

#### Disclaimer

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**End of Safety Data Sheet**