

# SAFETY DATA SHEET

An Employee-Owned Company

Issue Date 07-Nov-2014 Revision Date 02-May-2017 Version 4

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

**Product identifier** 

Product Name SpeedZone® Lawn Weed Killer

Other means of identification

Product Code PBI FP 652-5 EPA Pesticide Registration Number 2217-864 Product Size PBI FP 652-5 2217-864 12/20 U. S. Oz.

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

SupplierManufacturerCompany NamePBI Gordon CorporationPBI Gordon CorporationPBI Gordon Corporation1217 West 12th Street1217 West 12th Street1217 West 12th StreetKansas City, MO 64101Kansas City, MO 64101Kansas 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
Acute dermal toxicity	Category 3
Acute Inhalation Toxicity - Gases	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Serious eye damage/eye irritation	Category 1
Skin Sensitization	Category 1
Germ cell mutagenicity	Category 1B
Aspiration Toxicity	Category 1
Acute Aquatic Toxicity	Category 1
Chronic Aquatic Toxicity	Category 1

### Label elements

#### **Emergency Overview**

## Danger

#### Hazard statements

Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled. Causes serious eye damage. May cause an allergic skin reaction. May cause genetic defects. Very toxic to aquatic life with long lasting effects. May be fatal if swallowed and enters airways.



Appearance Liquid Physical state Liquid Odor Esters

### **Precautionary Statements - Prevention**

- · Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- · Do not eat, drink or smoke when using this product
- Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Contaminated work clothing should not be allowed out of the workplace
- Wear protective gloves
- Avoid release to the environment

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

- IF exposed or concerned: Get medical advice/attention
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF ON SKIN: Wash with plenty of soap and water
- Call a POISON CENTER or doctor/physician if you feel unwell
- Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- If skin irritation or rash occurs: Get medical advice/attention
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician
- · Rinse mouth
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Do NOT induce vomiting
- · Collect spillage

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

- Store locked up
- Store in a well-ventilated place. Keep container tightly closed

### **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.

### Other Information

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS	Weight %
2,4-D, 2-ethylhexyl ester	1928-43-4	28.57
Trade Secret	Proprietary	20-30*
R(+)2(2 Methyl-4-chlorophenoxy)propionic acid (MCPP)	16484-77-8	5.88
3,6-Dichloro-o-anisic acid (Dicamba)	1918-00-9	1.71
carfentrazone-ethyl (ISO) ethyl	128639-02-1	0.62

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(RS)-2-chloro-3-[2-chloro-4-fluoro-5-[4-difluorometh yl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl[p]		
henyl]propionate		
Trade Secret	Proprietary	0-10*

<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. Consult a physician if necessary. 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 or decomposition products. Consult a

physician if necessary.

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

physician immediately.

**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

Foam. Carbon dioxide (CO2). Dry chemical.

### 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

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. Use personal protective equipment as required.

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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. Use

personal protective equipment as required. Dam up. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Soak up with

inert absorbent material. Pick up and transfer to properly labeled containers.

### 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.

#### 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.

**Incompatible materials** None known.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	
2,4-D, 2-ethylhexyl ester	TWA: 10 mg/m³ inhalable fraction	TWA: 10 mg/m <sup>3</sup>	IDLH: 100 mg/m <sup>3</sup> , TWA: 10	
1928-43-4	S*	<del>-</del>	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** 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.

**Skin and body protection** Wear protective gloves and protective clothing.

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. Wash contaminated clothing before reuse. Regular

Esters

Pensky-Martens Closed Cup (PMCC)

cleaning of equipment, work area and clothing is recommended.

Odor

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical stateLiquidAppearanceLiquid

Color Amber Odor threshold No information available

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

pH Not Applicable

Melting point/freezing point <35 °F

Boiling point / boiling range > 93 °C / 200 °F Flash point > 94 °C / > 201 °F

Evaporation rate < 1

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information availableVapor pressureNo information availableVapor densityNo information available

Specific Gravity0.9665Water solubilityEmulsifiable

Solubility in other solventsNo information availablePartition coefficientNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableOxidizing propertiesNo information available

**Other Information** 

**Density** 8.05 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

None known.

#### **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** Irritant, moderate respiratory.

**Eye contact** Moderately irritating to the eyes.

**Skin Contact** Moderate skin irritation.

**Ingestion** No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2,4-D, 2-ethylhexyl ester 1928-43-4	= 300 mg/kg (Rat)	-	-
Trade Secret	> 5000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	> 5.2 mg/L (Rat)4 h
R(+)2(2 Methyl-4-chlorophenoxy)propionic acid (MCPP) 16484-77-8	= 1050 mg/kg(Rat)	> 4 g/kg (Rat)	-
3,6-Dichloro-o-anisic acid (Dicamba) 1918-00-9	= 1039 mg/kg(Rat)	> 2 g/kg (Rabbit)> 1 g/kg (Rat)	-
Trade Secret	= 8400 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 3400 ppm (Rat) 4 h

#### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** May cause sensitization by skin contact.

Germ cell mutagenicity Carcinogenicity

No information available.

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, 2-ethylhexyl ester		Group 2B		X
1928-43-4		-		
R(+)2(2		Group 2B		X
Methyl-4-chlorophenoxy)pro		-		
pionic acid (MCPP)				
16484-77-8				

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

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 32 % of the mixture consists of ingredient(s) of unknown toxicity

Oral LD50 > 2000 mg/kg Rat-male Rat-female

**Dermal LD50** > 1000 mg/kg

Inhalation LC50 > 2.06 mg/L Rat-male Rat-female

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

ATEmix (dermal) 5468 mg/kg ATEmix (inhalation-gas) 1867 mg/L

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

33% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2,4-D, 2-ethylhexyl ester 1928-43-4	30: 120 h Pseudokirchneriella subcapitata mg/L EC50 30: 120 h Pseudokirchneriella subcapitata mg/L EC50 static	6 - 8.7: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11.5: 96 h Lepomis macrochirus mg/L LC50 static 7.8: 96 h Oncorhynchus mykiss mg/L LC50 static		
Trade Secret		2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static 45: 96 h Pimephales promelas mg/L LC50 flow-through		4720: 96 h Den-dronereides heteropoda mg/L LC50
Trade Secret		9.22: 96 h Oncorhynchus mykiss mg/L LC50		6.14: 48 h Daphnia magna mg/L EC50

#### 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

### 14. TRANSPORT INFORMATION

DOT

Proper shipping name For package sizes less than 43.49 gallons: product is non-regulated.

For package sizes 43.49 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.

PESTICIDES, NOI, INCLUDING DEFOLIANTS, FUNGICIDES, HERBICIDES, OR

INSECTICIDES NMFC 155050-6

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

### 15. REGULATORY INFORMATION

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

**EPA Pesticide Registration Number** 2217-864

#### 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. Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, or viton. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

#### **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, 2-ethylhexyl ester				Х						
Trade Secret	Х	Х		Х			Х	Х	Х	Х
R(+)2(2 Methyl-4-chlorophenoxy)pro pionic acid (MCPP)				Х						
3,6-Dichloro-o-anisic acid (Dicamba)				X		Х		Х	Х	Х
carfentrazone-ethyl (ISO) ethyl (RS)-2-chloro-3-[2-chloro-4-fl uoro-5-[4-difluoromethyl-4,5- dihydro-3-methyl-5-oxo-1H-1 ,2,4-triazol-1-yl[phenyl]propi onate							Х			
Trade Secret	Х	Х		Х			Χ	Х	Х	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 %

#### PBI FP 652-5 SpeedZone® Lawn Weed Killer

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	2,4-D, 2-ethylhexyl ester - 1928-43-4	0.1
Γ	3,6-Dichloro-o-anisic acid (Dicamba) - 1918-00-9	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
2,4-D, 2-ethylhexyl ester 1928-43-4	100 lb			
3,6-Dichloro-o-anisic acid (Dicamba) 1918-00-9	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	CERCLA/SARA RQ	Reportable Quantity (RQ)
2,4-D, 2-ethylhexyl ester	100 lb		RQ 100 lb final RQ
1928-43-4			RQ 45.4 kg final RQ
3,6-Dichloro-o-anisic acid	1000 lb		RQ 1000 lb final RQ
(Dicamba)			RQ 454 kg final RQ
1918-00-9			

### **US State Regulations**

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2,4-D, 2-ethylhexyl ester	X		
1928-43-4			
3,6-Dichloro-o-anisic acid	X	X	X
(Dicamba)			
1918-00-9			

### International Regulations

Mexico - Grade Moderate risk, Grade 2

16. OTHER INFORMATION
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NFPAHealth hazards 2Flammability 1Instability 0Physical and Chemical Properties -HMISHealth hazards 2Flammability 1Physical hazards 0Personal 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

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**End of Safety Data Sheet**