

# SAFETY DATA SHEET

An Employee-Owned Company

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Version 1

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

Product identifier

**Product Name** 

Gordon's ORNAMEC® Over-The-Top Grass Herbicide

Other means of identification

**Product Code** 

PBI FP 778-6

**EPA Pesticide Registration Number** 2217-728

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

PBI Gordon Corporation 1217 West 12th Street PBI Gordon Corporation 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 toxicity - Inhalation (Gases)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Germ cell mutagenicity	Category 1A
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Aspiration toxicity	Category 1
Flammable liquids	Category 3

#### Label elements

#### **Emergency Overview**

### Danger

#### Hazard statements

Toxic if inhaled. Causes skin irritation. Causes serious eye irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May be fatal if swallowed and enters airways. Flammable liquid and vapor.

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Appearance Liquid

Physical state Liquid

Odor Solvent

# 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
- · Avoid breathing dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- · Wash face, hands and any exposed skin thoroughly after handling
- Wear eye/face protection
- · Keep away from heat/sparks/open flames/hot surfaces. No smoking
- Keep container tightly closed
- · Ground/bond container and receiving equipment
- · Use only non-sparking tools
- · Take precautionary measures against static discharge
- Keep cool

#### **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 eye irritation persists: Get medical advice/attention
- If skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse
- Call a POISON CENTER or doctor/physician
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- · Do NOT induce vomiting
- In case of fire: Use CO2, dry chemical, or foam for extinction

#### **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.

Percent volatile by volume: 36%

#### Other Information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Trade Secret	Proprietary	40-50*

Trade Secret	Proprietary	20-30*
Trade Secret	Proprietary	10-20*
Fluazifop-p-butyl	79241-46-6	6.75
Trade Secret	Proprietary	0-10*
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 In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible).

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 plenty of water.

**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. If

symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a

physician.

**Self-protection of the first aider** Remove all sources of ignition.

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 Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use. Foam. Carbon dioxide (CO2). Dry chemical.

### Specific hazards arising from the chemical

Flammable.

# 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** Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate

ventilation, especially in confined areas. Use personal protective equipment as required.

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). Soak up with inert

absorbent material.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and

static electricity).

Incompatible materials

Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Trade Secret	-	-	TWA: 25 ppm TWA: 125 mg/m³
Trade Secret	STEL: 150 ppm TWA: 100 ppm	TWA: 100 ppm TWA: 435 mg/m³ (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m³ (vacated) STEL: 150 ppm (vacated) STEL: 655 mg/m³	<del>-</del>
Trade Secret	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m³ (vacated) TWA: 50 ppm (vacated) TWA: 245 mg/m³ (vacated) S*	IDLH: 900 ppm TWA: 50 ppm TWA: 245 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.

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. Regular cleaning of equipment, work area and

clothing is recommended.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state

**Appearance** 

Liquid Liquid

Values

<35 °F

< 1

7.0

1.1

<2 mm Hg

Not available

> 110 °C / 230 °F

No information available

44 °C / 112 °F

Amber

Odor

Remarks • Method

Solvent

Odor threshold No information available

**Property** 

Color

рН 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

Specific Gravity Water solubility

Solubility in other solvents Partition coefficient Autoignition temperature

Decomposition temperature Oxidizing properties

Vapor density >1 0.89121

> Emulsifiable No information available No information available No information available

> No information available No information available

Other Information

Density 7.43 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

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents.

**Hazardous Decomposition Products** 

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

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

Inhalation

No data available.

Eye contact

No data available.

**Skin Contact** 

No data available.

Ingestion

No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Trade Secret	-	-	= 3900 mg/m³(Rat)4 h
Trade Secret	<u>-</u>	> 2000 mg/kg(Rabbit)	> 5.2 mg/L (Rat) 4 h = 3400 ppm (Rat) 4 h
Trade Secret	= 3400 mg/kg(Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m³ (Rat) 4 h
Trade Secret	= 4300 mg/kg(Rat)	-	= 47635 mg/L (Rat) 4 h
Trade Secret	= 1400 mg/kg (Rat)	= 12300 μL/kg(Rabbit)	-

#### 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.

Germ cell mutagenicity

No information available.

Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Trade Secret	A2	Group 1		Х
Trade Secret		Group 3		
Trade Secret		Group 2B		Х

#### ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2B - Possibly Carcinogenic to Humans

Not classifiable as a human carcinogen

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

X - Present

Reproductive toxicity STOT - single exposure

No information available.

No information available.

STOT - repeated exposure

No information available.

Chronic toxicity

May cause adverse effects on the bone marrow and blood-forming system.

Target Organ Effects
Aspiration hazard

blood, Central nervous system, Eyes, Respiratory system, Skin.

No information available.

Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 

8% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 22325 mg/kg
ATEmix (dermal) 4920 mg/kg
ATEmix (inhalation-gas) 987 mg/L
ATEmix (inhalation-dust/mist) 2.4 mg/L

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

8% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Trade Secret		5000: 96 h Oncorhynchus mykiss mg/L LC50		1000: 48 h Daphnia magna mg/L EC50
Trade Secret		9.22: 96 h Oncorhynchus mykiss mg/L LC50		6.14: 48 h Daphnia magna mg/L EC50
Trade Secret		7.19 - 8.28: 96 h Pimephales promelas mg/L LC50 flow-through		6.14: 48 h Daphnia magna mg/L EC50
Trade Secret		13.4: 96 h Pimephales promelas mg/L LC50 flow-through 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static		3.82: 48 h water flea mg/L EC50 0.6: 48 h Gammarus lacustris mg/L LC50
Trade Secret	2.6: 72 h Pseudokirchneriella subcapitata mg/L EC50	6.04 - 6.61: 96 h Pimephales promelas mg/L LC50 flow-through 4.8: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 2.7: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 5.1: 96 h Poecilia reticulata mg/L LC50 semi-static	EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	0.6: 48 h Daphnia magna mg/L EC50 7.9 - 14.1: 48 h Daphnia magna mg/L EC50 Static

Persistence and degradability

No information available.

#### Bioaccumulation

No information available.

#### Other adverse effects

Toxic to fish and aquatic invertebrates.

### 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Disposal of wastes This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

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

US EPA Waste Number D001

# 14. TRANSPORT INFORMATION

DOT

**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

# 15. REGULATORY INFORMATION

### U.S. EPA Label Information

**EPA Pesticide Registration Number** 2217-728

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. Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. 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

#### Leaend:

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
Trade Secret	Х	Х		X		Х	X	X	X	X X
Trade Secret	Х	Х		Х		Х	X	X	X	<u>x</u>
Trade Secret	X	Х		X		X	$\frac{1}{x}$	$\frac{\lambda}{x}$	X	<del>-</del>
Fluazifop-p-butyl				† <del></del>			, , , , , , , , , , , , , , , , , , ,	X		^
Trade Secret	Х	Х	<u> </u>	X		X		X	- v	
Trade Secret	Х	Х		X		X	X		<del>                                     </del>	<del>~</del>

### **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	CAS No.	Weight-%	SARA 313 - Threshold Values %
Trade Secret -		10-20*	1.0
Trade Secret -		0-10*	1.0
Trade Secret -		0-10*	1.0

## SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
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)

Chemical Name	CWA - Reportable  Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Trade Secret	100 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)
Trade Secret	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
Trade Secret	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

#### US State Regulations

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Trade Secret		X	
Trade Secret	X	X	Х
Trade Secret	X	X	Х
Trade Secret	X	X	X

### International Regulations

Mexico - Grade

Moderate risk, Grade 2

Chemical Name	Carcinogenicity	Exposure Limits
Trade Secret		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m³ Mexico: STEL 150 ppm Mexico: STEL 655 mg/m³
Trade Secret		Mexico: TWA 50 ppm Mexico: TWA 245 mg/m³ Mexico: STEL 75 ppm Mexico: STEL 365 mg/m³

# 16. OTHER INFORMATION

NFPA

Health hazards 2

Flammability 2

Instability 0

Physical and Chemical

Properties -

**HMIS** 

Health hazards 2

Flammability 2

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**