

# **SAFETY DATA SHEET**

An Employee-Owned Company

Issue Date 23-Jan-2015 Revision Date 03-Nov-2015 Version 2

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

**Product identifier** 

Product Name Gordon's LAUNCH®

Other means of identification

Product Code PBI FP 791-1

Recommended use of the chemical and restrictions on use

Recommended Use Fertilizers.

Uses advised against No information available.

Details of the supplier of the safety data sheet

Supplier Manufacturer Company Name

PBI Gordon Corporation
PBI Gordon Corporation
PBI Gordon Corporation
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)

Skin corrosion/irritation	Category 2
Carcinogenicity	Category 2
Flammable liquids	Category 3

## Label elements

# **Emergency Overview**

## Warning

## Hazard statements

Suspected of causing cancer. Causes skin irritation.

Flammable liquid and vapor.



Appearance Liquid Physical state Liquid Odor No information available

## **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
- Keep away from heat/sparks/open flames/hot surfaces. No smoking
- · Keep container tightly closed

## **Precautionary Statements - Response**

- IF exposed or concerned: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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 cool

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

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

## Hazards not otherwise classified (HNOC)

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 No.	Weight-%
Potassium Citrate	866-84-2	2.2
Iron sulfate heptahydrate	7782-63-0	1.8
Sodium o-phenylphenol	132-27-4	0.87
Potassium hydroxide	1310-58-3	0.3

<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 Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists: Get

medical advice/attention.

**Skin Contact** Wash off immediately with plenty of water.

**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Call a poison control center or doctor for treatment advice.

#### 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. Water spray (fog).

#### Specific hazards arising from the chemical

No information available.

#### **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 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 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 Ensure adequate ventilation, especially in confined areas. Take precautionary measures

against static discharges.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep tightly closed in a dry and cool place. Keep in properly labeled containers.

**Incompatible materials** Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** 

Exposure Gardennes								
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH					
Iron sulfate heptahydrate 7782-63-0	TWA: 1 mg/m <sup>3</sup> Fe	(vacated) TWA: 1 mg/m³ Fe	TWA: 1 mg/m³ Fe					
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m <sup>3</sup>	(vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m³					

NIOSH IDLH Immediately Dangerous to Life or Health

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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

The use of explosion-proof mechanical ventilation is recommended if this product is to be

used in an enclosed area.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or 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 Liquid

AppearanceLiquidOdorNo information availableColorBlack or Dark brownOdor thresholdNo information available

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

pH 9.0-10.0 Melting point/freezing point <35 °F

Boiling point / boiling range> 100 °C / 212 °FFlash point42 °C / 108 °FEvaporation rateNo information availableFlammability (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

Vapor densityNo information availableSpecific GravityNo information availableWater solubilityMiscible in water

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Oxidizing properties
No information available
No information available
No information available

Other Information

**Density** 8.88 pounds/gallon

# 10. STABILITY AND REACTIVITY

Reactivity

No data available

**Chemical stability** 

Stable.

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## **Possibility of Hazardous Reactions**

None under normal processing.

## Hazardous polymerization

Will not occur.

## **Conditions to avoid**

Acids.

#### Incompatible materials

Acids.

## **Hazardous Decomposition Products**

None known.

# 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
Sodium o-phenylphenol	= 1000 mg/kg (Rat) = 656 mg/kg (	-	-
132-27-4	Rat )		
Potassium hydroxide	= 284 mg/kg (Rat)	-	-
1310-58-3			

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium o-phenylphenol		Group 2B		X
132-27-4				

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
Chronic toxicity

No information available.
No information available.
No information available.
May cause adverse liver effects.

Target Organ Effects Eyes, Gastrointestinal tract (GI), Liver, 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

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

ATEmix (oral) 24851 mg/kg

# 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

Harmful to aquatic life

96% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Potassium hydroxide 1310-58-3		80: 96 h Gambusia affinis mg/L LC50 static		

#### 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 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 See Section 2: Hazards not otherwise classified (HNOC)

# 14. TRANSPORT INFORMATION

DOT

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

please contact our Transportation Dept.

FERTILIZERS NOI - NMFC #68140, SUB 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 Not Applicable

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

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#### 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
Potassium Citrate	Х	Х		Х		Χ	Х	Х	Х	Х
Iron sulfate heptahydrate						Х	Х		Х	Х
Sodium o-phenylphenol	Х	Х		Х		Х	Х	Х	Х	Х
Potassium hydroxide	Χ	Х		Х		Х	Х	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 %
Sodium o-phenylphenol - 132-27-4	0.1

# 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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Iron sulfate heptahydrate 7782-63-0				Х
Potassium hydroxide 1310-58-3	1000 lb			Х

# 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)
Ī	Iron sulfate heptahydrate	1000 lb		RQ 1000 lb final RQ
	7782-63-0			RQ 454 kg final RQ
Ī	Potassium hydroxide	1000 lb		RQ 1000 lb final RQ
	1310-58-3			RQ 454 kg final RQ

# **US State Regulations**

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Iron sulfate heptahydrate 7782-63-0		X	X
Sodium o-phenylphenol 132-27-4	X	X	

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Potassium hydroxide	Χ	X	X
1310-58-3			

# International Regulations

Mexico - Grade

Moderate risk, Grade 2

Chemical Name	Carcinogenicity	Exposure Limits	
Iron sulfate heptahydrate		Mexico: TWA 1 mg/m <sup>3</sup>	
, ,		Mexico: STEL 2 mg/m <sup>3</sup>	

16. OTHER INFORMATION							
NFPA_	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical			
HMIS_	Health hazards 0	Flammability 1	Physical hazards 0	Properties - Personal protection X			

#### **Disclaimer**

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**End of Safety Data Sheet**