

# SAFETY DATA SHEET

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Version 3

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

| Product identifier     |        |
|------------------------|--------|
| Product Name           |        |
| Other means of identif | icatio |

Gordon's LAUNCH®

Other means of identification **Product Code** PBI FP 7911011 **Product Size** 55 U. S. Gal.

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 PBI Gordon Corporation 1217 West 12th Street Kansas City, MO 64101 Emergency telephone number **Emergency Telephone** Chemtrec 1-800-424-9300

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

# 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 | Category 2 |
|------------------------------------|------------|
| Carcinogenicity                    | Category 2 |
| Flammable liquids                  | Category 3 |

# Label elements

# **Emergency Overview**

| Warning   |                       |                               |
|---|-----------------------|-------------------------------|
| Hazard statements<br>Suspected of causing cancer. Causes skin irritation<br>Flammable liquid and vapor. | ı.                    |                               |
|   |                       |                               |
| 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. Number | 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      |

\* 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 contain                                    | ment 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                                       |   |  |  |

# 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.  |

against static discharges.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

Advice on safe handling

# Exposure Guidelines

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

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).

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

# 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, su | ch 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<br>Appearance<br>Color   | Liquid<br>Liquid<br>Black or Dark brown   | Odor<br>Odor threshold  | No information available<br>No information available |
|---|---|-------------------------|--|
| Property<br>pH<br>Melting point/freezing point<br>Boiling point / boiling range<br>Flash point<br>Evaporation rate<br>Flammability (solid, gas)<br>Flammability Limit in Air<br>Upper flammability limit:<br>Lower flammability limit:<br>Vapor pressure<br>Vapor density<br>Specific Gravity<br>Water solubility<br>Solubility in other solvents<br>Partition coefficient<br>Autoignition temperature<br>Decomposition temperature<br>Oxidizing properties | Values9.0-10.0<35 °F> 100 °C / 212 °F42 °C / 108 °FNo information availableNo information available | <u>Remarks • Method</u> |  |
| Other Information   |   |                         |  |

Density

8.88 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

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<br>132-27-4 | = 1000 mg/kg (Rat)= 656 mg/kg (<br>Rat) | -           | -               |
| Potassium hydroxide<br>1310-58-3  | = 284 mg/kg (Rat)                       | -           | -               |

# Information on toxicological effects

Symptoms

No information available.

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

| Sensitization<br>Germ cell mutagenicity<br>Carcinogenicity  | No informatio<br>No informatio<br>The table bel | n available.   | agency has listed any ingre | edient as a carcinogen. |
|---|---|--|-----------------------------|-------------------------|
| Chemical Name   | ACGIH   | IARC   | NTP                         | OSHA                    |
| Sodium o-phenylphenol<br>132-27-4   |   | Group 2B   |                             | Х                       |
| IARC (International Agency<br>Group 2B - Possibly Carcinog<br>OSHA (Occupational Safety<br>X - Present                                      | enic to Humans                                  | of the US Department of Lai  | bor)                        |                         |
| Reproductive toxicity<br>STOT - single exposure<br>STOT - repeated exposur<br>Chronic toxicity<br>Target Organ Effects<br>Aspiration hazard | May cause a                                     | n available.<br>n available.<br>dverse liver effects.<br>intestinal tract (GI), Liver, I | Respiratory system, Skin.   |                         |
| Numerical measures of t   | oxicity - Product Informa                       | ation_   |                             |                         |

# Unknown 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 documentATEmix (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<br>microorganisms | Crustacea |
|---------------------|----------------------|---------------------------|-------------------------------|-----------|
| Potassium hydroxide |                      | 80: 96 h Gambusia affinis |                               |           |
| 1310-58-3           |                      | 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 |
| 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      |        | Х    | Х     | Х    | Х     | Х    |
| Iron sulfate heptahydrate |      |     |      |        |        | Х    | Х     |      | Х     | Х    |
| Sodium o-phenylphenol     | Х    | Х   |      | Х      |        | Х    | Х     | Х    | Х     | Х    |
| Potassium hydroxide       | Х    | 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

| Yes |
|-----|
| No  |
| Yes |
| No  |
| 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<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|--|--------------------------------|------------------------|---------------------------|-------------------------------|
| Iron sulfate heptahydrate<br>7782-63-0 |                                |                        |                           | Х                             |
| Potassium hydroxide<br>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) |
|---------------------------|--------------------------|----------------|--------------------------|
| Iron sulfate heptahydrate | 1000 lb                  |                | RQ 1000 lb final RQ      |
| 7782-63-0                 |                          |                | RQ 454 kg final RQ       |
| 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<br>7782-63-0 |            | X             | Х            |
| Sodium o-phenylphenol<br>132-27-4      | Х          | X             |              |
| Potassium hydroxide<br>1310-58-3       | Х          | X             | Х            |

# 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 |                  |                |                    |                                       |  |  |
|-----------------------|------------------|----------------|--------------------|---------------------------------------|--|--|
| <u>NFPA</u>           | Health hazards 0 | Flammability 1 | Instability 0      | Physical and Chemical<br>Properties - |  |  |
| HMIS                  | Health hazards 0 | Flammability 1 | Physical hazards 0 | Personal protection X                 |  |  |

#### Disclaimer

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End of Safety Data Sheet