SECTION 1: Identification

Product identifier

Product name: Bugsaw HPC
Product code: CPS-203

Recommended use of the product and restriction on use

Relevant identified uses: General Purpose Cleaner
Uses advised against: NA
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
JBS Industries
2550 Henkle Drive
Lebanon, Ohio 45036
513-228-2800
SBAETEN@JBSINDUSTRIES.COM

Emergency telephone number:
North America
CHEMTREC
800-424-9300 (24 hours)

SECTION 2: Hazard(s) identification

GHS classification:
Skin corrosion, category 1A
Serious eye damage, category 1

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
H314 Causes severe skin burns and eye damage
H318 Causes serious eye damage

Precautionary statements:
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P264 Wash contaminated area thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Identification</th>
<th>Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 527-07-1</td>
<td>Sodium gluconate</td>
<td>1-20</td>
</tr>
<tr>
<td>CAS number: 1310-58-3</td>
<td>Potassium hydroxide</td>
<td>1-25</td>
</tr>
<tr>
<td>CAS number: 68515-73-1</td>
<td>D-Glucopyranose, oligomers, decyl octyl glycosides</td>
<td>1-15</td>
</tr>
<tr>
<td>CAS number: 61789-40-0</td>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>1-20</td>
</tr>
<tr>
<td>CAS number: 1300-72-7</td>
<td>Sodium xylenesulfonate</td>
<td>1-12.5</td>
</tr>
</tbody>
</table>

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:
Show this Safety Data Sheet to the doctor in attendance

After inhalation:
If inhaled, remove person to fresh air. Keep person at rest. If symptoms persist, seek medical advice

After skin contact:
Wash off immediately with soap and plenty of water while removing contaminated clothing and shoes. Continue rinsing for at least 15 minutes. See a physician if irritation persists

After eye contact:
Immediately flush eyes, under eyelids with water for 15 minutes. Remove contact lenses, if present to do so. Protect unexposed eye. Continue rinsing on the way to hospital

After swallowing:
If swallowed, DO NOT induce vomiting unless told to do so by physicain or poison control center. Rinse mouth with water. Never give anything to drink to an unconscious person. Seek medical advice

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:
Symptoms may include blistering, irritation, burns and pain. Effects are dependent on exposure (dose, concentration, contact time)
Delayed symptoms and effects:
Symptoms of poisoning may appear several hours later

Immediate medical attention and special treatment
Specific treatment:
None known
Notes for the doctor:
Treat symptomatically

SECTION 5: Firefighting measures

Extinguishing media
Suitable extinguishing media:
Alcohol-resistant foam, Dry chemical or Carbon dioxide

Unsuitable extinguishing media:
None known

Specific hazards during fire-fighting:
Evacuate all personnel to a predetermined safe location, no less than 2,500 feet in all directions. Can explode or detonate under fire conditions. Burning material may produce toxic vapors

Special protective equipment for firefighters:
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

Special precautions:
Avoid inhaling gases, fumes, mist, dust, vapor or aerosols. Avoid contact with eyes, skin, hair or clothing

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Wear appropriate personal protective equipment as specified in Section 8. Keep unnecessary and unprotected personnel from entering

Environmental precautions:
Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers. Notify authorities if product enters sewers or public waters

Methods and material for containment and cleaning up:
Contain and soak up spill with absorbent that does not react with spilled product. Place used absorbent into suitable, covered, labelled containers for disposal. Carefully sweep material into a designated PLASTIC waste container. Collect in plastic containers only

Reference to other sections:
For further information refer to section 7 and section 13
For personal protection see section 8

SECTION 7: Handling and storage

Precautions for safe handling:
Avoid breathing dust/ fume/ gas/mist/vapors/spray. Keep away from all sources of ignition. Avoid contact with skin and eyes.
Wear gloves and eye protection when handling, moving or using this product. Do not contaminate water, food, or feed by storage or disposal.

Conditions for safe storage, including any incompatibilities:
Store in cool, dry place and keep container tightly closed. Do not store in direct sunlight.
Store in a cool, dry, well ventilated place. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use
SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

<table>
<thead>
<tr>
<th>Country (Legal Basis)</th>
<th>Substance</th>
<th>Identifier</th>
<th>Permissible concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>TWA: 2 mg/m³</td>
</tr>
<tr>
<td>NIOSH</td>
<td>Potassium hydroxide</td>
<td>1310-58-3</td>
<td>REL: 2 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values:
No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:
Not determined or not applicable.

Appropriate engineering controls:
Effective ventilation in all processing areas.

Personal protection equipment

Eye and face protection:
Tightly fitting safety goggles

Skin and body protection:
Chemical resistant clothing and gloves

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory protection

General hygienic measures:
Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday. Appropriate techniques should be applied to remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Std.</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>pH</td>
<td>12</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Initial boiling point/range</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flash point (closed cup)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Upper flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Lower flammability/explosive limit</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined or not available.</td>
</tr>
<tr>
<td>Solubilities</td>
<td>Not determined or not available.</td>
</tr>
</tbody>
</table>
**Safety Data Sheet**


**Initial preparation date:** 04.22.2019

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**Section 10: Stability and reactivity**

**Reactivity:**
Does not react under normal conditions of use and storage.

**Chemical stability:**
Stable under normal storage and handling conditions.

**Possibility of hazardous reactions:**
Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:**
Incompatible materials.

**Incompatible materials:**
Strong oxidizing agents.

**Hazardous decomposition products:**
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

---

**Section 11: Toxicological information**

**Acute toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Route</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>oral</td>
<td>LD50 Rat: 333 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

**Assessment:**
Causes severe skin burns and eye damage.

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium hydroxide</td>
<td>Causes severe skin burns.</td>
</tr>
<tr>
<td>1-Propanamininium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Sodium xylenesulfonate</td>
<td>Causes skin irritation.</td>
</tr>
</tbody>
</table>

---

Generated using Total SDS™ (patent-pending), www.GSMSDS.com
Causes serious eye damage.

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-Glucopyranose, oligomers, decyl octyl glycosides</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>1-Propanamininium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>Sodium xylenesulfonate</td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>

**Respiratory or skin sensitization**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Propanamininium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

**Carcinogenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

**Germ cell mutagenicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Reproductive toxicity**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:** No data available.

**Specific target organ toxicity (single exposure)**

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**
No data available.

**Substance data:**

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium xylenesulfonate</td>
<td>May cause respiratory irritation.</td>
</tr>
</tbody>
</table>

**Specific target organ toxicity (repeated exposure)**

Generated using Total SDS™ (patent-pending), www.GSMSDS.com
Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Information on likely routes of exposure: No data available.

Symptoms related to the physical, chemical and toxicological characteristics: No data available.

Other information: No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>NOEC Oncorhynchus mykiss: 0.16 mg/L (28 days)</td>
</tr>
</tbody>
</table>

Persistence and degradability

Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>D-Glucopyranose, oligomers, decyl octyl glycosides</td>
<td>Readily biodegradable.</td>
</tr>
<tr>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Readily biodegradable.</td>
</tr>
</tbody>
</table>

Bioaccumulative potential

Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Not expected to bioaccumulate.</td>
</tr>
</tbody>
</table>

Mobility in soil
Product data: No data available.

Substance data:

<table>
<thead>
<tr>
<th>Name</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Moderate to slow migration potential to ground water.</td>
</tr>
</tbody>
</table>

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:
- It is the responsibility of the waste generator to characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

| UN number | 1814 |
| UN proper shipping name | Potassium Hydroxide, Solution |
| UN transport hazard class(es) | 8 |
| Packing group | II |
| Environmental hazards | None |
| Special precautions for user | None |

International Maritime Dangerous Goods (IMDG)

| UN number | Not regulated |
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| UN number | Not regulated |
| UN proper shipping name | Not regulated |
| UN transport hazard class(es) | None |
| Packing group | None |
| Environmental hazards | None |
| Special precautions for user | None |

SECTION 15: Regulatory information

United States regulations
- Inventory listing (TSCA):
## Bugsaw HPC

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>527-07-1</td>
<td>Sodium gluconate</td>
<td>Listed</td>
</tr>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>Listed</td>
</tr>
<tr>
<td>68515-73-1</td>
<td>D-Glucopyranose, oligomers, decyl octyl glycosides</td>
<td>Listed</td>
</tr>
<tr>
<td>61789-40-0</td>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Listed</td>
</tr>
<tr>
<td>1300-72-7</td>
<td>Sodium xylenesulfonate</td>
<td>Listed</td>
</tr>
</tbody>
</table>

### Significant New Use Rule (TSCA Section 5):
Not determined.

### Export notification under TSCA Section 12(b):
Not determined.

### SARA Section 302 extremely hazardous substances:
Not determined.

#### SARA Section 313 toxic chemicals:

<table>
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<tr>
<th>CAS Number</th>
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</tr>
</thead>
<tbody>
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<td>Not Listed</td>
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</tbody>
</table>

#### CERCLA:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>Listed 1000 lb</td>
</tr>
</tbody>
</table>

### RCRA:
Not determined.

### Section 112(r) of the Clean Air Act (CAA):
Not determined.

#### Massachusetts Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listing Status</th>
</tr>
</thead>
<tbody>
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<td>Not Listed</td>
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<tr>
<td>1300-72-7</td>
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<td>Not Listed</td>
</tr>
</tbody>
</table>

#### New Jersey Right to Know:

<table>
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<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>527-07-1</td>
<td>Sodium gluconate</td>
<td>Not Listed</td>
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<td>Listed</td>
</tr>
<tr>
<td>68515-73-1</td>
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<td>Not Listed</td>
</tr>
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<td>61789-40-0</td>
<td>1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts</td>
<td>Not Listed</td>
</tr>
<tr>
<td>1300-72-7</td>
<td>Sodium xylenesulfonate</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

#### New York Right to Know:

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Chemical Name</th>
<th>Listing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>527-07-1</td>
<td>Sodium gluconate</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Initial preparation date: 04.22.2019

<table>
<thead>
<tr>
<th>Compound Code</th>
<th>Compound Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1310-58-3</td>
<td>Potassium hydroxide</td>
<td>Listed</td>
</tr>
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<td>68515-73-1</td>
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</tr>
<tr>
<td>1300-72-7</td>
<td>Sodium xylenesulfonate</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Pennsylvania Right to Know:

<table>
<thead>
<tr>
<th>Compound Code</th>
<th>Compound Name</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>527-07-1</td>
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</tr>
<tr>
<td>1310-58-3</td>
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<tr>
<td>68515-73-1</td>
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<td>Not Listed</td>
</tr>
<tr>
<td>1300-72-7</td>
<td>Sodium xylenesulfonate</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

California Proposition 65: None of the ingredients are listed.

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:
This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 0-0-0
HMIS: 0-0-0
Initial preparation date: 04.22.2019

End of Safety Data Sheet