1. Identification of the substance/preparation and of the company/undertaking

Product name: Automatic Dishwasher Powder
Product number: SG 10266 002

Relevant identified uses of the substance or mixture and advised against
Automatic dishwasher detergent. Accidental contact with powder may cause eye and skin irritation. If irritation occurs, seek medical advice immediately. Keep out of reach of children and pets.

Manufacturer / Supplier:
Company: Itaconix Corporation
Street: 2 Marin Way
Postal code/location: Stratham, NH 03885 USA
Phone: +1 603.775.4400
Fax: +1 603.617.4581
Email: info@itaconix.com

2. Hazards identification

2.1 Classification of the substance or mixture

Emergency overview
CAUTION
HARMFUL IF SWALLOWED.
EYE IRRITANT Avoid contact with eyes. DO NOT ingest.
KEEP OUT OF REACH OF CHILDREN AND PETS.

Potential short term health effects
Routes of exposure
Eye, Skin contact, Inhalation, Ingestion.

Eyes
Irritating to eyes.

Skin
None expected during normal conditions of use.
Not expected to be a skin sensitizer.

Inhalation
None expected during normal conditions of use.

Ingestion
Health injuries are not known or expected under normal use.

Target organs
Skin. Eyes.

Chronic effects
The finished product is not expected to cause chronic health effects.

Signs and symptoms
Symptoms may include redness, swelling, or drying of the skin.

OSHA Regulatory Status
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects
Components of this product have been identified as having potential environmental concerns.

2.2 Label elements
3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS Number</th>
<th>Conc. %</th>
<th>OSHA-PEL</th>
<th>ACGIH-TLV</th>
<th>LD50 (oral rat)</th>
<th>WHMIS Hazard Class</th>
<th>U.S. TSCA</th>
<th>CA. DSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium carbonate</td>
<td>497-19-8</td>
<td>25 - 50</td>
<td>15.0mg/m^3</td>
<td>10.0mg/m^3</td>
<td>4090 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Sodium percarbonate</td>
<td>15630-89-4</td>
<td>8 - 15</td>
<td>15.0mg/m^4</td>
<td>10.0mg/m^4</td>
<td>2400 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Sodium sulfate</td>
<td>7757-82-6</td>
<td>20 - 30</td>
<td>not applicable</td>
<td>not applicable</td>
<td>5989 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Sodium metasilicate</td>
<td>10213-79-3</td>
<td>0.1 - 5</td>
<td>not applicable</td>
<td>not applicable</td>
<td>1153 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Gluconic acid</td>
<td>527-07-1</td>
<td>0.1 - 5</td>
<td>none listed</td>
<td>none listed</td>
<td>not available</td>
<td>not available</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Tartaric acid</td>
<td>87-69-4</td>
<td>0.1 - 1</td>
<td>none listed</td>
<td>none listed</td>
<td>7500 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Trisodium citrate</td>
<td>6132-04-3</td>
<td>1 - 10</td>
<td>not applicable</td>
<td>not applicable</td>
<td>not available</td>
<td>not controlled</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Zinc carbonate</td>
<td>5263-02-5</td>
<td>0.1 - 1</td>
<td>none listed</td>
<td>none listed</td>
<td>not available</td>
<td>not available</td>
<td>D-2B</td>
<td>not listed</td>
</tr>
<tr>
<td>Itaconix Dispersant DSP 1K</td>
<td>1364375-22-3</td>
<td>3 - 10</td>
<td>not applicable</td>
<td>not applicable</td>
<td>2000 mg/kg</td>
<td>Not rated</td>
<td>imminent in process</td>
<td></td>
</tr>
<tr>
<td>Alcohol Alkoxylate</td>
<td>na</td>
<td>2 - 5</td>
<td>not applicable</td>
<td>not applicable</td>
<td>200-2000 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Tetraacetlylene diamine</td>
<td>10543-57-4</td>
<td>0.1 - 3</td>
<td>not applicable</td>
<td>not applicable</td>
<td>10,000 mg/kg</td>
<td>Not rated</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Protease</td>
<td>9014-01-1</td>
<td>0.1 - 2</td>
<td>not applicable</td>
<td>not applicable</td>
<td>&gt;2000 mg/kg</td>
<td>Not rated</td>
<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Alpha Amylase</td>
<td>9000-90-2</td>
<td>0.1 - 2</td>
<td>none listed</td>
<td>none listed</td>
<td>&gt;5000 mg/kg</td>
<td>D-2B</td>
<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Protease</td>
<td>9014-01-1</td>
<td>0.1 - 2</td>
<td>none listed</td>
<td>none listed</td>
<td>&gt;5000 mg/kg</td>
<td>D-2B</td>
<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Acrylic acid polymer</td>
<td>68479-09-4</td>
<td>0.1 - 5</td>
<td>none listed</td>
<td>none listed</td>
<td>&gt;5000 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Acrylic acid copolymer</td>
<td>non-haz</td>
<td>0.1 - 5</td>
<td>none listed</td>
<td>none listed</td>
<td>&gt;5000 mg/kg</td>
<td>D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
<tr>
<td>Acid Blue Dye</td>
<td>na</td>
<td>0.02 - 0.5</td>
<td>none listed</td>
<td>none listed</td>
<td>&gt;5000 mg/kg</td>
<td>D-2B</td>
<td>unknown</td>
<td>unknown</td>
</tr>
<tr>
<td>Limonene</td>
<td>6989-27-5</td>
<td>0.02 - 0.5</td>
<td>not applicable</td>
<td>not applicable</td>
<td>4400 mg/kg</td>
<td>B3, D-2B</td>
<td>listed</td>
<td>listed</td>
</tr>
</tbody>
</table>

4. First-aid measures

Upon accidental contact with powder if irritation occurs:

First aid procedures

**Eye contact**

If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes.

**Skin contact**

Rinse immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**Inhalation**

DO NOT INDUCE VOMITING. If swallowed, rinse mouth and drink a glass of water. Call a Physician or Poison Control Center.

**Ingestion**

Notes to physician

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting measures

Flammable properties

Not flammable by OSHA criteria.

Extinguishing media

Treat for surrounding material.

Protection of firefighters

As in any fire, firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon. Oxides of sulphur.

Explosion data

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available
6. Accidental release measures

**Personal precautions**
Keep unnecessary personnel away. Wear appropriate protective clothing.

**Environmental precautions**
Do not discharge into lakes, streams, ponds or public waters.

**Methods for cleaning up**
In the event of an accidental spill, beware of slippery floors and surfaces. Use a broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water.

7. Handling and storage

**Handling**
Use only as directed. Wear appropriate personal protective equipment as needed. Avoid contact with eyes, skin and respiratory system. When using, do not eat or drink.

**Storage**
Store in dry area. Always keep container closed when not in use. KEEP OUT OF REACH OF CHILDREN AND PETS

8. Exposure controls/personal protection

**Household Setting**
No special requirements under normal use conditions.

**Industrial Setting**
Handle in accordance with good industrial hygiene and safety practices. Wear splash resistant chemical goggles, suitable gloves, and use appropriate NIOSH/MSHA/CEN protection such as N95 or type P1 (EN 143) respirator.

9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Granular powder contained within a water soluble clear pouch/pod</td>
</tr>
<tr>
<td>Colour:</td>
<td>White with blue granules</td>
</tr>
<tr>
<td>Odour:</td>
<td>Slight citrus-like scent</td>
</tr>
<tr>
<td>pH value:</td>
<td>10.0–11.0 when dissolved in water</td>
</tr>
<tr>
<td>Melting point/Melting range:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Boiling Point/Boiling range:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flash point:</td>
<td>not applicable</td>
</tr>
<tr>
<td>Flammability:</td>
<td>non flammable</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>not explosive</td>
</tr>
<tr>
<td>Density at 20°C:</td>
<td>bulk 0.95 g/cm³</td>
</tr>
<tr>
<td>Solubility in water (20 °C):</td>
<td>completely soluble</td>
</tr>
<tr>
<td>Other physical–chemical properties:</td>
<td>not relevant</td>
</tr>
</tbody>
</table>

10. Stability and reactivity

**Conditions to be avoided**
Temperature above 150 °C

**Materials to be avoided**
Do not mix with strong oxidizing agents or with other household products such as bleach or rust removers.

**Dangerous decomposition products**
Oxides of carbon, oxides of sulphur.

11. Toxicological information

For component analysis, see item 3. Composition/Information on ingredients

**Effects of acute exposure**

<table>
<thead>
<tr>
<th>Effect</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Eye</strong></td>
<td>Irritating to eyes</td>
</tr>
<tr>
<td><strong>Skin</strong></td>
<td>None expected during normal conditions of use. Not expected to be a skin sensitizer.</td>
</tr>
<tr>
<td><strong>Inhalation</strong></td>
<td>Health injuries are not known or expected under normal use.</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>The finished product is not expected to cause chronic health effects.</td>
</tr>
<tr>
<td><strong>Sensitization</strong></td>
<td>The finished product is not expected to cause chronic health effects.</td>
</tr>
<tr>
<td><strong>Chronic effects</strong></td>
<td>The finished product is not expected to cause chronic health effects.</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>The finished product is not expected to cause chronic health effects.</td>
</tr>
<tr>
<td><strong>Mutagenicity</strong></td>
<td>The finished product is not expected to cause chronic health effects.</td>
</tr>
<tr>
<td><strong>Reproductive effects</strong></td>
<td>The finished product is not expected to cause chronic health effects.</td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
<td>The finished product is not expected to cause chronic health effects.</td>
</tr>
</tbody>
</table>
12. Ecological information

Based on ecotoxicity and fate data provided by the MSDS of each ingredient within this product’s formulation, and from the MSDS of related consumer household cleaning product formulations, this product should be considered non toxic to aquatic organisms and unlikely to cause long-term adverse effects to the environment at relevant environmental concentrations. This product is intended for use only in automatic dishwashers, and should not be disposed of directly into the environment.

13. Disposal considerations

Disposal/Waste (product and packaging)  
Dispose of waste and residues in accordance with local waste regulations. Recycle packaging where possible.

14. Transport information

Not subject to regulation in: U.S., EU, Canada
UN number: none for ARD/RID, IMDG, or IATA
UN proper shipping name: not dangerous goods for ARD/RID, IMDG, or IATA
US-DOT: Proper shipping name: None
Non-hazardous for transport
IATA: Non-hazardous for air transport

15. Regulatory information

EU-REACH  
To the best of our knowledge, this safety datasheet complies with the requirements of regulation (EC) No. 1907/2006.

Canada-CEPA  
To the best of our knowledge, this safety datasheet complies with the requirements of the Controlled Products Regulations.

United States-TSCA  
TSCA Status: Yes the product is listed. (a yes indicates that components of this product comply with the inventory requirements administered by the governing country)
California Proposition 65: This product does not contain any chemicals on California’s Proposition 65 list dated 16 March 2012.

16. Other information

HMIS Ratings: Health 2, Flammability 0, Physical Hazard 0
NFPA Ratings: Health 2, Flammability 0, Physical Hazard 0

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Itaconix Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.