

## 1. Product and Company Identification

|   |   |
|---|---|
| <b>Product identifier</b>                                     | <b>Glisten Detergent Booster &amp; Freshener</b>              |
| <b>Other means of identification</b>                          | Not available   |
| <b>Recommended use</b>  | Hard Water Spot Remover                                       |
| <b>Recommended restrictions</b>                               | None known.   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |   |
| <b>Manufacturer</b>   |   |
| <b>Company name</b>   | Iron Out dba Summit Brands                                    |
| <b>Address</b>  | 7201 Engle Road<br>Fort Wayne, IN 46804-5875<br>United States |
| <b>Telephone</b>  | 260-483-2519  |
| <b>E-mail</b>   | Not available.  |
| <b>Emergency phone number</b>                                 | 1-800-424-9300 (CHEMTREC)                                     |

## 2. Hazards Identification

|                              |                                   |             |
|------------------------------|-----------------------------------|-------------|
| <b>Physical hazards</b>      | Corrosive to metals               | Category 1  |
| <b>Health hazards</b>        | Skin corrosion/irritation         | Category 2  |
|                              | Serious eye damage/eye irritation | Category 2A |
| <b>Environmental hazards</b> | Not classified.                   |             |
| <b>OSHA defined hazards</b>  | Not classified.                   |             |

### Label elements



|  |   |
|--|---|
| <b>Signal word</b>                               | Warning   |
| <b>Hazard statement</b>                          | May be corrosive to metals. Causes skin irritation. Causes serious eye irritation.  |
| <b>Precautionary statement</b>                   |   |
| <b>Prevention</b>                                | Keep only in original container. Wash thoroughly after handling. Wear protective gloves. Wear eye protection/face protection.   |
| <b>Response</b>                                  | Absorb spillage to prevent material damage. If on skin: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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. |
| <b>Storage</b>                                   | Store in corrosive resistant container with a resistant inner liner.  |
| <b>Disposal</b>                                  | Dispose of waste and residues in accordance with local authority requirements.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.   |
| <b>Supplemental information</b>                  | Not applicable.   |

## 3. Composition/Information on Ingredients

### Mixtures

| Chemical name                    | Common name and synonyms | CAS number  | %      |
|----------------------------------|--------------------------|-------------|--------|
| Citric Acid                      |                          | 77-92-9     | 60-100 |
| Benzoic acid, phenylmethyl ester |                          | 120-51-4    | 1-5    |
| Amorphous silica, precipitated   |                          | 112926-00-8 | <1     |
| Silica                           |                          | 7631-86-9   | <1     |

**Composition comments** US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

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## 4. First Aid Measures

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|---|---|
| <b>Inhalation</b>   | If inhaled: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, obtain medical attention.   |
| <b>Skin contact</b>   | If on skin: Wash with plenty of water. Specific treatment (see information on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.  |
| <b>Eye contact</b>  | 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.  |
| <b>Ingestion</b>  | If swallowed: Rinse mouth. Do NOT induce vomiting. Obtain medical attention.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.   |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.  |
| <b>General information</b>  | 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, skin and clothing. Wear rubber gloves and chemical splash goggles. Keep out of reach of children. |

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## 5. Fire Fighting Measures

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| <b>Suitable extinguishing media</b>                                  | Dry chemical, CO2, water spray or regular foam.  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.   |
| <b>Specific hazards arising from the chemical</b>                    | Firefighters should wear a self-contained breathing apparatus.   |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters should wear full protective clothing including self contained breathing apparatus.                                    |
| <b>Fire fighting equipment/instructions</b>                          | In the event of fire, cool tanks with water spray. Cool containers with flooding quantities of water until well after fire is out. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.   |
| <b>General fire hazards</b>  | Firefighters should wear a self-contained breathing apparatus.   |

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## 6. Accidental Release Measures

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| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.                            |
| <b>Methods and materials for containment and cleaning up</b>               | Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Prevent entry into waterways, sewers, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.   |

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## 7. Handling and Storage

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|---|--|
| <b>Precautions for safe handling</b>                                | DANGER -- CORROSIVE<br>Avoid dust formation. Use only with adequate ventilation. Do not breathe dust. Do not get in eyes, on skin or on clothing. Wear appropriate personal protective equipment. Avoid prolonged exposure. Wash thoroughly after handling. Keep container tightly closed.       |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in corrosive resistant container with a resistant inner liner. Store away from incompatible materials (see Section 10 of the SDS). Store in a cool, dry place out of direct sunlight. Keep only in the original container. Store in a closed container. Keep out of the reach of children. |

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## 8. Exposure Controls/Personal Protection

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### Occupational exposure limits

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

| Components                                       | Type | Value     |
|--|------|-----------|
| Amorphous silica, precipitated (CAS 112926-00-8) | TWA  | 0.8 mg/m3 |
|  |      | 20 mppcf  |

**US. OSHA Table Z-3 (29 CFR 1910.1000)**

| Components             | Type | Value                             |
|------------------------|------|-----------------------------------|
| Silica (CAS 7631-86-9) | TWA  | 0.8 mg/m <sup>3</sup><br>20 mppcf |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                                       | Type | Value               |
|--|------|---------------------|
| Amorphous silica, precipitated (CAS 112926-00-8) | TWA  | 6 mg/m <sup>3</sup> |
| Silica (CAS 7631-86-9)                           | TWA  | 6 mg/m <sup>3</sup> |

|  |   |
|--|---|
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).  |
| <b>Exposure guidelines</b>   | Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.  |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye/face protection</b>   | Safety glasses or goggles.  |
| <b>Skin protection</b>   |   |
| <b>Hand protection</b>   | Rubber gloves. Confirm with a reputable supplier first.   |
| <b>Other</b>   | As required by employer code.   |
| <b>Respiratory protection</b>  | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.  |
| <b>Thermal hazards</b>   | Not applicable.   |
| <b>General hygiene considerations</b>  | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.   |

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## 9. Physical and Chemical Properties

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|   |                 |
|---|-----------------|
| <b>Appearance</b>                                   | Powder          |
| <b>Physical state</b>                               | Solid.          |
| <b>Form</b>   | Powder          |
| <b>Color</b>  | Yellow.         |
| <b>Odor</b>   | Lemon           |
| <b>Odor threshold</b>                               | Not available.  |
| <b>pH</b>   | 2.0 - 2.3       |
| <b>Melting point/freezing point</b>                 | Not available.  |
| <b>Initial boiling point and boiling range</b>      | Not available.  |
| <b>Pour point</b>                                   | Not available.  |
| <b>Specific gravity</b>                             | Not available.  |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.  |
| <b>Flash point</b>                                  | Not available.  |
| <b>Evaporation rate</b>                             | Not available.  |
| <b>Flammability (solid, gas)</b>                    | Not applicable. |
| <b>Upper/lower flammability or explosive limits</b> |                 |
| <b>Flammability limit - lower (%)</b>               | Not available.  |
| <b>Flammability limit - upper (%)</b>               | Not available.  |
| <b>Explosive limit - lower (%)</b>                  | Not available.  |
| <b>Explosive limit - upper (%)</b>                  | Not available.  |
| <b>Vapor pressure</b>                               | Not available.  |
| <b>Vapor density</b>                                | Not available.  |

|                                  |                |
|----------------------------------|----------------|
| <b>Relative density</b>          | Not available. |
| <b>Solubility(ies)</b>           | Not available. |
| <b>Auto-ignition temperature</b> | Not available. |
| <b>Decomposition temperature</b> | Not available. |
| <b>Viscosity</b>                 | Not available. |

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## 10. Stability and Reactivity

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|   |   |
|---|---|
| <b>Reactivity</b>                         | Reacts vigorously with alkaline material.             |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.              |
| <b>Chemical stability</b>                 | Stable under recommended storage conditions.          |
| <b>Conditions to avoid</b>                | Do not mix with other chemicals.                      |
| <b>Incompatible materials</b>             | Oxidizers. Reducing agents. Strong bases.             |
| <b>Hazardous decomposition products</b>   | May include and are not limited to: Oxides of carbon. |

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## 11. Toxicological Information

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### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | No adverse effects due to inhalation are expected. |
| <b>Skin contact</b> | Causes skin irritation.                            |
| <b>Eye contact</b>  | Causes serious eye irritation.                     |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.             |

**Symptoms related to the physical, chemical and toxicological characteristics** Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Eye irritation Skin irritation

| Components                                       | Species | Test Results  |
|--|---------|---------------|
| Amorphous silica, precipitated (CAS 112926-00-8) |         |               |
| <b>Acute</b>                                     |         |               |
| <i>Dermal</i>                                    |         |               |
| LD50   | Rabbit  | >= 2000 mg/kg |
| <i>Inhalation</i>                                |         |               |
| LC50   | Rat     | > 2 mg/L      |
| <i>Oral</i>                                      |         |               |
| LD50   | Mouse   | > 15000 mg/kg |
|  | Rat     | > 22500 mg/kg |
|  |         | 31600 mg/kg   |

Benzoic acid, phenylmethyl ester (CAS 120-51-4)

|                |        |            |
|----------------|--------|------------|
| <b>Acute</b>   |        |            |
| <i>Dermal</i>  |        |            |
| LD50           | Rabbit | 4000 mg/kg |
|                | Rat    | 4000 mg/kg |
| <b>LC50</b>    |        |            |
| Not available. |        |            |

Citric Acid (CAS 77-92-9)

|                   |               |                              |
|-------------------|---------------|------------------------------|
| <b>Acute</b>      |               |                              |
| <i>Dermal</i>     |               |                              |
| LD50              | Rat           | > 2000 mg/kg, 24 Hours, ECHA |
| <i>Inhalation</i> |               |                              |
| LC50              | Not available |                              |
| <i>Oral</i>       |               |                              |
| LD50              | Mouse         | 5790 mg/kg, ECHA             |
|                   |               | 5400 mg/kg                   |

| Components  | Species   | Test Results      |
|---|---|-------------------|
|   |   | 5040 mg/kg        |
|   | Rat   | 11700 mg/kg, ECHA |
| Silica (CAS 7631-86-9)  |   |                   |
| <b>Acute</b>  |   |                   |
| <i>Dermal</i>   |   |                   |
| LD50  | Rabbit  | > 2000 mg/kg      |
| <i>Inhalation</i>   |   |                   |
| LC50  | Not available   |                   |
| <i>Oral</i>   |   |                   |
| LD50  | Mouse   | > 15000 mg/kg     |
|   | Rat   | > 5000 mg/kg      |
| <b>Skin corrosion/irritation</b>  | Causes skin irritation.   |                   |
| <b>Exposure minutes</b>   | Not available.  |                   |
| <b>Erythema value</b>   | Not available.  |                   |
| <b>Oedema value</b>   | Not available.  |                   |
| <b>Serious eye damage/eye irritation</b>                                  | Causes serious eye irritation.  |                   |
| <b>Corneal opacity value</b>  | Not available.  |                   |
| <b>Iris lesion value</b>  | Not available.  |                   |
| <b>Conjunctival reddening value</b>                                       | Not available.  |                   |
| <b>Conjunctival oedema value</b>  | Not available.  |                   |
| <b>Recover days</b>   | Not available.  |                   |
| <b>Respiratory or skin sensitization</b>                                  |   |                   |
| <b>Respiratory sensitization</b>  | Not available.  |                   |
| <b>Skin sensitization</b>   | Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis. |                   |
| <b>Germ cell mutagenicity</b>   | Not classified.   |                   |
| <b>Carcinogenicity</b>  | Not classified or listed by IARC, NTP, OSHA and ACGIH.                                  |                   |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>             |   |                   |
| Amorphous silica, precipitated (CAS 112926-00-8)                          | Volume 68 - 3 Not classifiable as to carcinogenicity to humans.                         |                   |
| Silica (CAS 7631-86-9)  | Volume 68 - 3 Not classifiable as to carcinogenicity to humans.                         |                   |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>        |   |                   |
| Not listed.   |   |                   |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> |   |                   |
| Not regulated.  |   |                   |
| <b>Reproductive toxicity</b>  | Not classified.   |                   |
| <b>Specific target organ toxicity - single exposure</b>                   | Not classified.   |                   |
| <b>Specific target organ toxicity - repeated exposure</b>                 | Not classified.   |                   |
| <b>Aspiration hazard</b>  | Not available.  |                   |
| <b>Chronic effects</b>  | Prolonged inhalation may be harmful.  |                   |
| <b>Further information</b>  | Not available.  |                   |

## 12. Ecological Information

| Components                | Species | Test Results                   |
|---------------------------|---------|--------------------------------|
| Ecotoxicity               |         |                                |
| See below                 |         |                                |
| Ecotoxicological data     |         |                                |
| Citric Acid (CAS 77-92-9) |         |                                |
| <i>Acute</i>              |         |                                |
| Crustacea                 | EC50    | Daphnia magna                  |
|                           |         | 120 mg/L, 72 hr                |
| <b>Aquatic</b>            |         |                                |
| <i>Acute</i>              |         |                                |
| Fish                      | LC50    | Bluegill (Lepomis macrochirus) |
|                           |         | 1516 mg/L, 96 hr               |

| Components   | Species   | Test Results                   |
|--|---|--------------------------------|
| Silica (CAS 7631-86-9)                                   |   |                                |
| Algae  | IC50  | Algae<br>440 mg/L, 72 Hours    |
| Crustacea  | EC50  | Daphnia<br>7600 mg/L, 48 Hours |
| <b>Persistence and degradability</b>                     | No data is available on the degradability of this product.  |                                |
| <b>Bioaccumulative potential</b>                         | Not available.  |                                |
| <b>Partition coefficient n-octanol / water (log Kow)</b> |   |                                |
| Glisten Detergent Booster & Freshener                    |   | -1.72, @20°C                   |
| Benzoic acid, phenylmethyl ester                         |   | 3.97                           |
| <b>Mobility in soil</b>                                  | No data available.  |                                |
| <b>Mobility in general</b>                               | Not available.  |                                |
| <b>Other adverse effects</b>                             | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component. |                                |

### 13. Disposal Considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).  |
| <b>Contaminated packaging</b>                | Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.   |

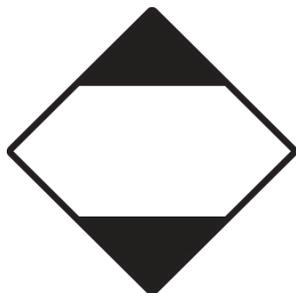
### 14. Transport Information

#### U.S. Department of Transportation (DOT)

##### Basic shipping requirements:

|                             |  |
|-----------------------------|--|
| <b>UN number</b>            | UN3261                                   |
| <b>Proper shipping name</b> | Corrosive solid, acidic, organic, n.o.s. |
| <b>Technical name</b>       | Citric Acid                              |
| <b>Hazard class</b>         | Limited Quantity - US                    |
| <b>Packing group</b>        | III                                      |
| <b>Special provisions</b>   | IB8, IP3, T1, TP33                       |
| <b>Packaging exceptions</b> | <5 kg - Limited Quantity                 |
| <b>Packaging non bulk</b>   | 213                                      |
| <b>Packaging bulk</b>       | 240                                      |

DOT



### 15. Regulatory Information

|   |  |
|---|--|
| <b>US federal regulations</b>   | This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>      | Not regulated.   |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>                     | Not listed.  |
| <b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b> | Not regulated.   |

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**  
 Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
 Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
 Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Total food additive  
 GRAS food additive

**US state regulations** This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**US - Minnesota Haz Subs: Listed substance**

Amorphous silica, precipitated (CAS 112926-00-8) PRECIPITATED SILICA (SEE SILICA - AMORPHOUS)  
 SILICA - PRECIPITATED SILICA  
 Silica (CAS 7631-86-9) SILICA - SILICA GEL  
 SILICA (SIO2)

**US - New Jersey RTK - Substances: Listed substance**

Amorphous silica, precipitated (CAS 112926-00-8)  
 Silica (CAS 7631-86-9)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

**US. Massachusetts RTK - Substance List**

Amorphous silica, precipitated (CAS 112926-00-8)  
 Silica (CAS 7631-86-9)

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania RTK - Hazardous Substances**

Silica (CAS 7631-86-9)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Silica (CAS 7631-86-9)

**US. Rhode Island RTK**

Not regulated.

**US. California Proposition 65**

Not Listed.

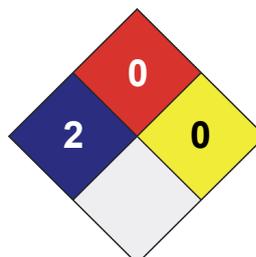
**Country(s) or region** **Inventory name** **On inventory (yes/no)\***  
 United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

**16. Other Information**

| LEGEND   |   |
|----------|---|
| Severe   | 4 |
| Serious  | 3 |
| Moderate | 2 |
| Slight   | 1 |
| Minimal  | 0 |

|                            |     |
|----------------------------|-----|
| <b>HEALTH</b>              | / 2 |
| <b>FLAMMABILITY</b>        | 0   |
| <b>PHYSICAL HAZARD</b>     | 0   |
| <b>PERSONAL PROTECTION</b> | X   |



**Disclaimer**

The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1.

**Issue date**

07-February-2017

**Revision date**

07-February-2017

**Version #**

02

**Further information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

**Other information**

Redbook revision # 8, 12/21/16

**Prepared by**

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