1. IDENTIFICATION

Product Identifier
Product Name: ScaleBreak-SS

Other means of identification
SDS #: GOOD-001

Recommended use of the chemical and restrictions on use
Recommended Use: Descaler.

Details of the supplier of the safety data sheet
Supplier Address:
Goodway Technologies Corp
420 West Ave
Stamford, CT 06902
www.goodway.com

Emergency Telephone Number
Company Phone Number: 1-800-333-7467
Emergency Telephone (24 hr): Chemtrec 1-800-424-9300 (North America)

2. HAZARDS IDENTIFICATION

Appearance: Clear, colorless liquid
Physical state: Liquid
Odor: Mild

Classification
Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 1
Specific target organ toxicity (single exposure): Category 3

Signal Word: Danger

Hazard statements
Causes skin irritation
Causes serious eye damage
May cause respiratory irritation

Precautionary Statements - Prevention
Wear protective gloves/protective clothing/eye protection/face protection
Wash face, hands and any exposed skin thoroughly after handling
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Precautionary Statements - Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Immediately call a poison center or doctor/physician
IF ON SKIN: Wash with plenty of water and soap
Take off contaminated clothing and wash before reuse
If skin irritation occurs: Get medical advice/attention
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a poison center or doctor/physician if you feel unwell

Precautionary Statements - Storage
Store in a well-ventilated place. Keep container tightly closed
Store locked up

Precautionary Statements - Disposal
Disposal should be in accordance with applicable regional, national, and local laws and regulations

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3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphate Ester Descaling Compound</td>
<td>Proprietary</td>
<td>&lt;15</td>
</tr>
<tr>
<td>Descaling Accelerator</td>
<td>Proprietary</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Corrosion Inhibitors and Surfactants</td>
<td>Proprietary</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

**First Aid Measures**

**General Advice**
Provide this SDS to medical personnel for treatment.

**Eye Contact**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention, preferably from an ophthalmologist.

**Skin Contact**
IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing, wash thoroughly before reuse. If irritation occurs: Get medical advice/attention.

**Inhalation**
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Loosen tight clothing such as collar, tie, belt, or waistband. If symptoms persist, seek medical attention.

**Ingestion**
Rinse mouth thoroughly with water. Remove dentures, if any. Do not induce vomiting without medical advice. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor breathing. Never give anything by mouth to a person who is unconscious or convulsing. Do not leave victim unattended. Seek immediate medical attention/advice.

**Most important symptoms and effects**

**Symptoms**
EYES: Causes severe eye irritation and serious eye damage. Symptoms may include inflammation, pain, blurred vision, tearing and burns. May cause chemical conjunctivitis. May cause vision impairment and permanent eye damage.
SKIN: Causes skin irritation. Symptoms may include localized redness, itching and discomfort. Prolonged and repeated contact with unprotected skin may cause drying and
cracking of the skin and dermatitis.

INHALATION: Mist or vapor may cause irritation of the nose, throat and respiratory tract. Symptoms may include sore throat, runny nose, cough and shortness of breath.

INGESTION: Causes irritation of the gastrointestinal tract with abdominal pain, nausea, vomiting and diarrhea. May be harmful if swallowed.

CHRONIC: Persons with pre-existing disorders of the skin or impaired respiratory function may be more susceptible to the effects of this substance. Prolonged and repeated skin contact can result in defatting of the skin and dermatitis.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

Treat symptomatically & supportively. Treatment of exposure should be directed at the control of symptoms and the clinical condition.

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### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** None known.

**Specific Hazards Arising from the Chemical**

Closed containers may explode due to buildup of pressure when exposed to extreme heat.

**Hazardous Combustion Products:** Smoke, fumes or vapors, and oxides of carbon.

**Explosion Data**

- **Sensitivity to Mechanical Impact:** Not expected.
- **Sensitivity to Static Discharge:** Not expected.

**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. Water spray may be used for cooling containers to prevent possible pressure build-up and autoignition or explosion when exposed to extreme heat. Prevent fire extinguishing water from contaminating surface water or the ground water system.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**

Evacuate unnecessary personnel. Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate affected area. Remove all sources of ignition. No smoking in spill area. Product may cause a slip hazard.

**For Emergency Responders**

Follow all fire-fighting procedures in Section 5. Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment**

Approach release from upwind. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Prevent from entering drains, sewers, streams or other bodies of water. If runoff occurs, notify authorities as required.

**Methods for Clean-Up**

Collect with absorbent, non-combustible material in to suitable containers. Clean surface
thoroughly to remove residual contamination. Should not be released into the environment. For waste disposal, see section 13 of the SDS.

### 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling**
Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions**
Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Do not transfer contents to bottles or other unlabeled containers. Protect container from physical damage. Keep containers closed when not in use and upright to prevent leakage. Empty containers retain product residues. Follow SDS precautions in handling empty containers. Use appropriate containment to avoid environmental contamination. Do NOT take internally. Keep out of the reach of children.

**Incompatible Materials**
Strong oxidizing agents. Strong acids. Strong Alkalis or Bases.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

**Appropriate engineering controls**

**Engineering Controls**
Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Local exhaust ventilation recommended. Eyewash stations. Showers.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection**
Chemical resistant splash goggles. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection**
Oil/solvent resistant gloves. Protective clothing as required by workplace standards. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

**Respiratory Protection**
Ensure adequate ventilation, especially in confined areas. Refer to 29 CFR 1910.134 for respiratory protection requirements.

**General Hygiene Considerations**
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. Launder contaminated clothing before reuse.

### 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>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, colorless liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Odor Threshold</td>
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<tr>
<td>Property</td>
<td>Values</td>
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<tr>
<td>--------------------------------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>pH</td>
<td>&lt;3.0</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>100 °C / 212 °F</td>
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<tr>
<td>Flash Point</td>
<td>Not determined</td>
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<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
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<tr>
<td>Flammability (Solid, Gas)</td>
<td>Liquid- Not applicable</td>
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<tr>
<td>Flammability Limits in Air</td>
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</tr>
<tr>
<td>Upper Flammability Limits</td>
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<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>Relative Density</td>
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<tr>
<td>Water Solubility</td>
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<td>Solubility in other solvents</td>
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<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
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<tr>
<td>Auto-ignition Temperature</td>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Kinematic Viscosity</td>
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<tr>
<td>Dynamic Viscosity</td>
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<tr>
<td>Explosive Properties</td>
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<tr>
<td>Oxidizing Properties</td>
<td>Not applicable</td>
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<tr>
<td>Other Information</td>
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</tr>
<tr>
<td>VOC Content (%)</td>
<td>NDA</td>
</tr>
</tbody>
</table>

**10. STABILITY AND REACTIVITY**

**Reactivity**  
Not reactive under normal conditions.

**Chemical Stability**  
Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**  
None under normal processing.

**Hazardous Polymerization**  
Hazardous polymerization does not occur.

**Conditions to Avoid**  
Keep out of reach of children.

**Incompatible Materials**  

**Hazardous Decomposition Products**  
Smoke, fumes or vapors, and oxides of carbon. Nitrogen oxides (NOx). Sulfur oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Eye Contact**  
Causes serious eye damage.

**Skin Contact**  
Causes skin irritation.

**Inhalation**  
May cause respiratory irritation.
Ingestion
Do not ingest.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descaling Accelerator</td>
<td>= 2220 mg/kg (Rat)</td>
<td>&gt; 740 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Corrosion Inhibitors and Surfactants</td>
<td>= 560 mg/kg (Rat)</td>
<td>&gt; 10000 mg/kg (Rabbit) &gt; 1 g/kg (Rat)</td>
<td>= 1910 mg/m³ (Rat) 3 h</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

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

Carcinogenicity
Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical measures of toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Descaling Accelerator</td>
<td></td>
<td>1.0 - 10.0: 96 h Brachydanio rerio mg/L LC50 static 12.2: 96 h Brachydanio rerio mg/L LC50 semi-static</td>
<td></td>
</tr>
<tr>
<td>Corrosion Inhibitors and Surfactants</td>
<td>15.4: 96 h freshwater algae mg/L EC50</td>
<td>39: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>141.6: 48 h water flea mg/L EC50</td>
</tr>
</tbody>
</table>

Persistence/Degradability
Components of this product are readily biodegradable.

Bioaccumulation
Not determined.

Mobility
Not determined.

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.
14. TRANSPORT INFORMATION

**Note**
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**
Not regulated

**IATA**
Not regulated

**IMDG**
Not regulated

15. REGULATORY INFORMATION

### International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL/NDSL</th>
<th>EINECS/ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphate Ester Descaling Compound</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Descaling Accelerator</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Corrosion Inhibitors and Surfactants</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

**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

**US Federal Regulations**

**SARA 311/312 Hazard Categories**

- **Acute Health Hazard** Yes

**SARA 313**
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**US State Regulations**

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
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</thead>
<tbody>
<tr>
<td>Corrosion Inhibitors and Surfactants</td>
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16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>-</td>
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</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal Protection</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>C</td>
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</table>

Issue Date: 17-Jan-2018
Revision Date: 19-Jan-2018
Revision Note: New format

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release 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 or in any process, unless specified in the text.

End of Safety Data Sheet