Safety Data Sheet

Section 1: Identification

Product identifier
Product Name · Acid-Rite® Tablets

Relevant identified uses of the substance or mixture and uses advised against
Recommended use · Water treatment

Details of the supplier of the safety data sheet
Manufacturer · Axiall, LLC
2801 Post Oak Blvd., Suite 600
Houston, TX 77056
United States
www.westlake.com
SDSinfo@westlake.com

Telephone (General) · +1 713-960-9111

Emergency telephone number
Manufacturer · +1 304-455-6882

Section 2: Hazard Identification

UN GHS Revision 3
According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

Classification of the substance or mixture
UN GHS · Acute Toxicity Oral 5
Skin Corrosion 1C
Serious Eye Damage 1

Label elements
UN GHS

DANGER

Hazard statements · May be harmful if swallowed
Causes severe skin burns and eye damage.
Causes serious eye damage

Precautionary statements
Prevention · Do not breathe mist/vapours/spray.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Response • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Specific treatment, see supplemental first aid information.  
Wash contaminated clothing before reuse.  
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 SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Call a POISON CENTER or doctor/physician if you feel unwell.

Storage/Disposal • Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards  
UN GHS • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous

United States (US)  
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture  
OSHA HCS 2012 • Skin Corrosion 1C  
Serious Eye Damage 1

Label elements  
OSHA HCS 2012

DANGER

Hazard statements • Causes severe skin burns and eye damage.  
Causes serious eye damage

Precautionary statements  
Prevention • Do not breathe dust.  
Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
Specific treatment, see supplemental first aid information.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor/physician.

Storage/Disposal • Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards  

Canada
According to: WHMIS 2015

Classification of the substance or mixture

WHMIS 2015
- Skin Corrosion 1C
- Serious Eye Damage 1

Label elements

WHMIS 2015

DANGER

Hazard statements • Causes severe skin burns and eye damage.
• Causes serious eye damage

Precautionary statements

Prevention • Do not breathe dust.
• Wash thoroughly after handling.
• Wear protective gloves/protective clothing/eye protection/face protection.

Response • IF INHALED: Remove person to fresh air and keep comfortable for breathing.
• IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
• Specific treatment, see supplemental first aid information.
• Wash contaminated clothing before reuse.
• 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage/Disposal • Store locked up.
• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

WHMIS 2015
• In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance.

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bisulfate</td>
<td>CAS: 7681-38-1</td>
<td>60% TO 100%</td>
<td>NDA</td>
<td>UN GHS Revision 3: Eye Dam. 1; Acute Tox. 5 (Orl)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>OSHA HCS 2012: Eye Dam. 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WHMIS 2015: Eye Dam. 1</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures
Description of first aid measures

Inhalation
- Move victim to fresh air. Administer oxygen if breathing is difficult. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Give artificial respiration if victim is not breathing. Get medical attention immediately.

Skin
- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. If irritation develops and persists, get medical attention.

Eye
- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion
- If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Do not use mouth-to-mouth method if victim ingested the substance. Obtain medical attention immediately if ingested.

Most important symptoms and effects, both acute and delayed
- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed
- Notes to Physician
  - All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media
Suitable Extinguishing Media
- Use dry chemical, carbon dioxide, water spray (fog) or foam.

Unsuitable Extinguishing Media
- Do not use water jet.

Special hazards arising from the substance or mixture
Unusual Fire and Explosion Hazards
- Emits toxic fumes under fire conditions. Reacts with moisture or water to form sulfuric acid.

Hazardous Combustion Products
- Depending on conditions, decomposition products may include the following materials: sulfur oxides, halogenated compounds, metal oxide/oxides.

Advice for firefighters
- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
- Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
- Wear positive pressure self-contained breathing apparatus (SCBA).
- SMALL FIRES: Move containers from fire area if you can do it without risk. Use water spray to cool fire exposed containers.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventura the area before entry. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least
50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

Environmental precautions
- Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up
- Avoid generating dust.
- Carefully shovel or sweep up spilled material and place in suitable container.

Section 7 - Handling and Storage

Precautions for safe handling
Handling
- Handle and open container with care. Use only with adequate ventilation. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Add this product only to water. Never add water to this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for safe storage, including any incompatibilities
Storage
- Keep only in the original container. Hygroscopic. Absorbs moisture from the air. Reacts with moisture or water to form sulfuric acid. Keep container tightly closed. Keep away from incompatible materials. Separate from oxidizing materials. Store in a cool, dry, well-ventilated place. Keep from direct sunlight. Do not ship or store in contact with aluminum, zinc, or copper.

Section 8 - Exposure Controls/Personal Protection

Control parameters
Exposure Limits/Guidelines
- No applicable exposure limits available for product or components.

Exposure controls
Engineering
- Good general ventilation 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.

Personal Protective Equipment
Respiratory
- If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Eye/Face
- Wear chemical splash goggles and face shield.

Skin/Body
- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Environmental Exposure Controls
- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Solid</td>
</tr>
<tr>
<td>Color</td>
<td>Pink</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
</tbody>
</table>

General Properties

| Boiling Point   | No data available | Melting Point/Freezing Point | 177 °C (350.6 °F) |
| Decomposition Temperature | No data available | pH | 310 to 320°C (590 to 608°F) |
| Specific Gravity/Relative Density | = 2.1 Water=1 | Density | 17.5 lbs/gal |
| Water Solubility | Soluble 100 % | Viscosity | No data available |

Volatile

| Vapor Pressure | No data available | Vapor Density | No data available |
| Evaporation Rate | No data available | VOC (VL) | 0 % |
| VOC (VLL) | 0 % | Volatiles (VT) | 0 % |
| Volatiles (Vol.) | 0 % |  |

Flammability

| Flash Point | Product does not support combustion | UEL | Not relevant |
| LEL | Not relevant | Autoignition | No data available |
| Flammability (solid, gas) | No data available |  |

Section 10: Stability and Reactivity

Reactivity
- No dangerous reaction known under conditions of normal use.

Chemical stability
- Stable under recommended storage and handling conditions.

Possibility of hazardous reactions
- Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid
- Hygroscopic. Absorbs moisture from the air. When exposed to high temperatures may produce hazardous decomposition products. Avoid dust generation. Avoid creating dusty conditions and prevent wind dispersal. Keep away from heat, sparks, flames and all possible sources of ignition.

Incompatible materials
- Corrosive to aluminum, especially when wet with water. Reacts with moisture or water to form sulfuric acid. Keep away from the following materials to prevent strong
exothermic reactions: oxidizing agents, strong alkalis, strong acids, metals, sodium carbonate, Calcium Hypochlorite, moisture, water.

**Hazardous decomposition products**
- Depending on conditions, decomposition products may include the following materials: sulfur oxides, halogenated compounds, metal oxide/oxides.

### Section 11 - Toxicological Information

**Information on toxicological effects**

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity</strong></td>
<td>UN GHS 3 • Acute Toxicity - Oral 5 • ATEmix (oral) = 2801 mg/kg</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>Skin corrosion/Irritation</strong></td>
<td>UN GHS 3 • Skin Corrosion 1C</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Skin Corrosion 1C</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • Skin Corrosion 1C</td>
</tr>
<tr>
<td><strong>Serious eye damage/Irritation</strong></td>
<td>UN GHS 3 • Serious Eye Damage 1</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • Serious Eye Damage 1</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • Serious Eye Damage 1</td>
</tr>
<tr>
<td><strong>Skin sensitization</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>Respiratory sensitization</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>Aspiration Hazard</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>Germ Cell Mutagenicity</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>Toxicity for Reproduction</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>STOT-SE</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
<tr>
<td><strong>STOT-RE</strong></td>
<td>UN GHS 3 • No data available</td>
</tr>
<tr>
<td></td>
<td>OSHA HCS 2012 • No data available</td>
</tr>
<tr>
<td></td>
<td>WHMIS 2015 • No data available</td>
</tr>
</tbody>
</table>

### Potential Health Effects

**Inhalation**
- Acute (Immediate)
- May cause corrosive burns - irreversible damage.
Chronic (Delayed) • Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

Skin
Acute (Immediate) • Causes severe skin burns.
Chronic (Delayed) • Repeated or prolonged exposure to corrosive materials will cause dermatitis.

Eye
Acute (Immediate) • Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.
Chronic (Delayed) • Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

Ingestion
Acute (Immediate) • May be harmful if swallowed. May cause irreversible damage to mucous membranes.
Chronic (Delayed) • Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

Section 12 - Ecological Information

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>CAS</th>
<th>Acute Toxicity-Fish: 96 Hour(s) LC50 Bluegill - Lepomis macrochirus 1294600 µg/L [Fresh water]</th>
<th>Comments: Inert Ingredient</th>
<th>96 Hour(s) NOEC Fathead minnow - Pimaphales promelas 0.86 g/L [Fresh water]</th>
<th>Comments: Inert Ingredient</th>
<th>Aquatic Toxicity-Crustacea: 48 Hour(s) EC50 Water flea - Daphnia magna 402600-469200 µg/L [Fresh water]</th>
<th>Comments: Inert Ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid-Rite® Tablets</td>
<td>NDA</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Reacts with moisture or water to form sulfuric acid. Toxic to aquatic life.

Persistence and degradability
- Material data lacking.

Bioaccumulative potential
- Material data lacking.

Mobility in Soil
- Material data lacking.

Other adverse effects
- No studies have been found.

Section 13 - Disposal Considerations

Waste treatment methods
Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information
<table>
<thead>
<tr>
<th>DOT</th>
<th>UN3260</th>
<th>Corrosive Solid, Acidic, Inorganic, n.o.s. (Sodium Bisulfate)</th>
<th>8</th>
<th>III</th>
<th>NDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>UN3260</td>
<td>CORROSOVE SOLID, ACIDIC, INORGANIC, N.O.S. (Sodium Bisulfate)</td>
<td>8</td>
<td>III</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN3260</td>
<td>CORROSOVE SOLID, ACIDIC, INORGANIC, N.O.S. (Sodium Bisulfate)</td>
<td>8</td>
<td>III</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN3260</td>
<td>Corrosive solid, acid, inorganic, n.o.s. (Sodium Bisulfate)</td>
<td>8</td>
<td>III</td>
<td>NDA</td>
</tr>
</tbody>
</table>

Special precautions for user
- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- No data available

**Section 15 - Regulatory Information**

Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Hazard Classifications**
- Acute

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada NDSL</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium bisulfate</td>
<td>7681-38-1</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Canada**

**Labor**
- Canada - WHMIS 1988 - Classifications of Substances
  - Sodium bisulfate
    - 7681-38-1 E

- Canada - WHMIS 1988 - Ingredient Disclosure List
  - Sodium bisulfate
    - 7681-38-1 1%

**Environment**
- Canada - CEPA - Priority Substances List
  - Sodium bisulfate
    - 7681-38-1 Not Listed

**United States**

**Labor**
- U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
  - Sodium bisulfate
    - 7681-38-1 Not Listed

- U.S. - OSHA - Specifically Regulated Chemicals
  - Sodium bisulfate
    - 7681-38-1 Not Listed

**Environment**
- U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
  - Sodium bisulfate
    - 7681-38-1 Not Listed

- U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
  - Sodium bisulfate
    - 7681-38-1 Not Listed

- U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
  - Sodium bisulfate
    - 7681-38-1 Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification  
• Sodium bisulfate 7681-38-1 Not Listed

United States - California  
Environment  
U.S. - California - Proposition 65 - Carcinogens List  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female  
• Sodium bisulfate 7681-38-1 Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male  
• Sodium bisulfate 7681-38-1 Not Listed

15.3 Other Information

Section 16 - Other Information

Revision Date  
12/ October/2018

Preparation Date  
15/May/2015

Disclaimer/Statement of Liability  
The technical data given herein 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. No guarantee is being given as to the end use performance. The product is sold on the basis that buyers test the product for their specific purposes. This information related to the material designated and may not be valid for such material used in combination with any other materials or in any process.

Key to abbreviations  
NDA = No Data Available