



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
1000 Abernathy Rd. NE, Suite 1200
Atlanta, GA 30328
United States
www.axiall.com
msdsinfo@axiall.com

Telephone (General) • +1 225-685-1240

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

- OSHA HCS 2012**
- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

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

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

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**
- Ventilate 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

- Containment/Clean-up Measures**
- 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 Measures/Controls

- 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**

Material Description			
Physical Form	Solid	Appearance/Description	Fresh to pungent, pink solid (tablets)
Color	Pink	Odor	Fresh to pungent.
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	177 °C(350.6 °F) 310 to 320C (590 to 608F)
Decomposition Temperature	No data available	pH	1 [Conc. (% w/w): 0.1%]
Specific Gravity/Relative Density	= 2.1 Water=1	Density	20.03 lbs/gal
Water Solubility	Soluble 100 %	Viscosity	No data available
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	0 %
VOC (Vol.)	0 %	Volatiles (Wt.)	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		
Environmental			
Octanol/Water Partition coefficient	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

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

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

Toxicity

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

- 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

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards

DOT	UN3260	Corrosive Solid, Acidic, Inorganic, n.o.s (Sodium Bisulfate)	8	III	NDA
TDG	UN3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Sodium Bisulfate)	8	III	NDA
IMO/IMDG	UN3260	CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (Sodium Bisulfate)	8	III	NDA
IATA/ICAO	UN3260	Corrosive solid, acidic, inorganic, n.o.s. (Sodium Bisulfate)	8	III	NDA

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

Inventory			
Component	CAS	Canada NDSL	TSCA
Sodium bisulfate	7681-38-1	No	Yes

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

Section 16 - Other Information

Revision Date	<ul style="list-style-type: none"> • 18/January/2017
Preparation Date	<ul style="list-style-type: none"> • 15/May/2015
Disclaimer/Statement of Liability	<ul style="list-style-type: none"> • 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