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

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.

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	OSHA HCS 2012: Not Classified
Inert Ingredient	*Proprietary*	5% TO 10%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	OSHA HCS 2012: Eye Irrit. 2

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

- 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	Odorless, pink solid (tablets)
Color	Pink	Odor	Odorless
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point	310 to 320 C(590 to 608 F)
Decomposition Temperature	No data available	pH	1 [Conc. (% w/w): 0.1%]
Specific Gravity/Relative Density	= 2.4	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	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

- Decomposition products may include the following materials: sulfur oxides, halogenated compounds, metal oxide/oxides.

Section 11: Toxicological Information

Information on toxicological effects

Components		
Inert Ingredient (5% TO 10%)	*Proprietary*	**Acute Toxicity:** Ingestion/Oral-Rat LD50 • 3000 mg/kg; **Irritation:** Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; **Multi-dose Toxicity:** Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; *Vascular*:**BP elevation not characterized in autonomic section;** **Mutagen:** Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; **Reproductive:** Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); *Reproductive Effects:Maternal Effects*:**Postpartum;** *Reproductive Effects:Effects on Newborn*:**Biochemical and metabolic**

GHS Properties	Classification

Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Corrosion 1C
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Serious Eye Damage 1

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 cause irreversible damage to mucous membranes.

Chronic (Delayed)
- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal distrubances.

Key to abbreviations
LD = Lethal Dose
TD = Toxic Dose

Section 12 - Ecological Information

Toxicity

Acid-Rite™ Tablets					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
1294600 µg/L	**Fish:** Bluegill - Lepomis macrochirus	96 Hour(s)	LC50	Fresh water	Inert Ingredient
402600-469200 µg/L	**Crustacea:** Water flea - Daphnia magna	48 Hour(s)	EC50	Fresh water	Inert Ingredient
0.86 g/L	**Fish:** Fathead minnow - Pimephales promelas	96 Hour(s)	NOEC	Fresh water	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

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	TSCA
Sodium bisulfate	7681-38-1	Yes
Inert Ingredient	*Proprietary*	Yes

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Sodium bisulfate	7681-38-1	Not Listed
• Inert Ingredient	*Proprietary*	Not Listed

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

Section 16 - Other Information

Last Revision Date	• 15/May/2015
Preparation Date	• 15/May/2015
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Key to abbreviations
NDA = No Data Available