

# SAFETY DATA SHEET

## Section 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFIER

**Product Name:** Jamo Star Clean

**Product Code:** Not Available

### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

**Product Use:** Cleaner

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

**Name/Address:** Jamo Inc.  
3490 Piedmont Road, Suite 1300  
Atlanta, GA 30329

**Telephone Number:** (562)-598-8808

### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone Number:** INFOTRAC 1-800-535-5053 (US and Canada)  
INTERNATIONAL + 1-352-323-3500

## Section 2: HAZARD(S) IDENTIFICATION

### 2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR

1910.1200 (OSHA HAZCOM2012)

<b>Skin corrosion</b>	<b>Category 1B</b>
<b>Serious eye damage</b>	<b>Category 1</b>

### 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

**2.2a SIGNAL WORD:**  
DANGER!

**2.2b HAZARD STATEMENTS**  
Causes severe skin burns  
Causes serious eye damage

**2.2c HAZARD PICTOGRAMS**



# SAFETY DATA SHEET

## 2.2d PRECAUTIONARY STATEMENTS

<b>i. PREVENTION</b>	Wash hands thoroughly after handling. Do not breathe dust/fume/gas/mist/ vapors/spray. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid release to the environment. Wear impervious gloves/protective clothing/eye protection/face protection.
<b>ii. RESPONSE</b>	If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. If swallowed: immediately call a poison center/doctor and rinse mouth. If exposed or concerned: get medical advice/attention
<b>iii. STORAGE</b>	Store in a well-ventilated place. Keep container tightly closed.
<b>iv. DISPOSAL</b>	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

## 2.3 ADDITIONAL INFORMATION

### 2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED

Not applicable

### 2.3b UNKNOWN ACUTE TOXICITY

Not applicable

### 2.3c WHMIS CLASSIFICATION

Class D2B – Skin/Eye Irritant

Class E – Corrosive Material

### 2.3d LABEL ELEMENTS ACCORDING TO WHMIS

#### i. WHMIS HAZARD SYMBOLS



# SAFETY DATA SHEET

iii. **SIGNAL WORD**  
DANGER!

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Sulfamic Acid	5329-14-6	60 – 100%**

\*\* The composition of the product has been expressed as a range due to batch-to-batch variability

## Section 4: FIRST-AID MEASURES

### 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for several minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
<b>Inhalation:</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
<b>Skin Contact:</b>	Causes severe skin burn. Handling can cause dry skin, discomfort; can also produce inflammation and blistering.
<b>Inhalation:</b>	May cause respiratory tract irritation.
<b>Ingestion:</b>	May be harmful if swallowed. Ingestion may cause discomfort

## SAFETY DATA SHEET

and/or distress, nausea or vomiting.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Not applicable

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## Section 5: FIRE-FIGHTING MEASURES

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### 5.1 FLAMMABILITY

**Flammability:** Not Flammable by WHMIS/OSHA HAZCOM2012 Criteria

### 5.2 EXTINGUISHING MEDIA

**5.2a. Suitable Extinguishing Media:**

Treat for surrounding material.

**5.2b. Unsuitable Extinguishing Media:**

Not available.

### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

**5.3a. Products of Combustion:**

May include, and are not limited to: formation of ammonia and oxides of sulfur and nitrogen

**5.3b. Explosion Data**

**i. Sensitivity to Mechanical Impact:**

Not available.

**ii. Sensitivity to Static Discharge:**

Not available.

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## Section 6: ACCIDENTAL RELEASE MEASURES

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### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Use appropriate Personal Protective Equipment (PPE). Put the spilled solid crystal in a convenient waste disposal container. Do not flush to sewer or allow to enter waterways.

**Methods for Cleaning-Up:** Vacuum or sweep material and place in a disposal container. Dispose of unwanted material properly in accordance with all local,

# SAFETY DATA SHEET

regional, national and international regulations.

## Section 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Use in well-ventilated areas. Wear impervious gloves, such as nitrile and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Do not take internally.

**General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Keep dry until use.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETER

#### Exposure Guidelines

Occupational Exposure Limits		
Chemical Name	OSHA-PEL	ACGIH-TLV
Sulfamic Acid	Not Available	Not Available

### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### 8.3 INDIVIDUAL PROTECTION MEASURES

#### 8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]

## SAFETY DATA SHEET

- ii. **Skin Protection:**
  - 1. **Hand Protection:** Wear impervious gloves, such as nitrile.
  - 2. **Body Protection:** Wear suitable protective clothing
  
- iii. **Respiratory Protection:** A NIOSH approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
  
- iv. **General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.):</b>	Solid Crystal
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not available
<b>pH:</b>	~ 1 – 1.2
<b>Melting point/Freezing point:</b>	215 - 225°C (419-437°F)
<b>Initial boiling point and boiling range:</b>	Not available
<b>Flash point:</b>	Not available
<b>Evaporation rate (Water=1):</b>	Not available
<b>Flammability:</b>	Not flammable
<b>Upper Flammability/Explosive Limit:</b>	Not available
<b>Lower Flammability/Explosive Limit:</b>	Not available
<b>Vapor Pressure</b>	0.008 hPa (0.006 mmHg) at 20°C (68°F)
<b>Vapor Density:</b>	2.151 g/cm <sup>3</sup> at 25°C (77°F)
<b>Relative Density:</b>	1.25 – 1.29 g/cc
<b>Solubility in Water:</b>	21.3g in 100ml of water at 20°C
<b>Partition coefficient: n-octanol/water:</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition Temperature:</b>	209°C
<b>Viscosity (cps):</b>	Not available
<b>VOC Content:</b>	0 g/L (0%)

### Section 10: STABILITY AND REACTIVITY

#### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

## SAFETY DATA SHEET

**10.2. CHEMICAL STABILITY**

Stable under normal storage conditions. Keep dry in storage.

**10.3. POSSIBILITY OF HAZARDOUS REACTION**

No dangerous reaction known under conditions of normal use.

**10.4. CONDITIONS TO AVOID**

Heat. Incompatible materials.

**10.5. INCOMPATIBLE MATERIALS**

Strong oxidizing agents, strong bases

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

May include, and are not limited to: formation of ammonia and oxides of sulfur and nitrogen

### Section 11: TOXICOLOGICAL INFORMATION

**11.1. LIKELY ROUTES OF EXPOSURE:**

Skin contact, skin absorption, eye contact, inhalation, and ingestion.

**11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:**

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin Contact:** Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis.

**Inhalation:** May cause respiratory tract irritation.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity		
Chemical Name	LC50	LD50
Sulfamic Acid	Not available	3160 mg/kg, Rat 1312 mg/kg, Mouse 1050 mg/kg, Guinea pig

Carcinogenicity	
Chemical Name	Chemical Listed as Carcinogens or

## SAFETY DATA SHEET

	<b>Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)</b>
Sulfamic Acid	Not Listed

### 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
<b>Skin Corrosion/Irritation:</b>	Causes severe skin burns
<b>Serious Eye Damage/Irritation:</b>	Causes serious eye damage
<b>Respiratory Sensitization:</b>	Not available
<b>Skin Sensitization:</b>	Not available
<b>STOT-Single Exposure:</b>	Not available
<b>Aspiration Hazard:</b>	Not available
LONG-TERM	
<b>Carcinogenicity:</b>	Not available
<b>Germ Cell Mutagenicity:</b>	Not available
<b>Reproductive Toxicity:</b>	Not available
<b>STOT-Repeated Exposure:</b>	Not available
<b>Synergistic/Antagonistic Effects:</b>	Not available

## Section 12: ECOLOGICAL INFORMATION

### 12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Sulfamic Acid	Not available	Pimephales promelas (fathead minnow) 70.3 mg/l – 96h

### 12.2. PERSISTENCE AND DEGRADABILITY

Not available

### 12.3. BIOACCUMULATIVE POTENTIAL

Not available

### 12.4. MOBILITY IN SOIL

Not available

### 12.5. OTHER ADVERSE EFFECTS

Not available



# SAFETY DATA SHEET

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. DISPOSAL METHOD**

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

**13.2. OTHER DISPOSAL CONSIDERATIONS**

Not available

## Section 14: TRANSPORT INFORMATION

DOT (U.S.)	TDG (CANADA)
<b>UN NUMBER:</b>  UN 2967	<b>UN NUMBER:</b>  UN 2967
<b>UN PROPER SHIPPING NAME:</b>  Sulfamic Acid	<b>UN PROPER SHIPPING NAME:</b>  Sulfamic Acid
<b>TRANSPORT HAZARD CLASS (ES):</b>  Class 8	<b>TRANSPORT HAZARD CLASS (ES):</b>  Class 8
<b>PACKING GROUP (if applicable):</b>  III	<b>PACKING GROUP (if applicable):</b>  III

**SUMMARY:** Product is regulated under DOT/TDG transportation regulations.

**14.1. ENVIRONMENTAL HAZARDS**

Not available

**14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE**

Not available

**14.3. SPECIAL PRECAUTIONS FOR USER**

Do not handle until all safety precautions have been read and understood.

## Section 15: REGULATORY INFORMATION

**15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL**

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

## SAFETY DATA SHEET

**US:** SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012

**15.2. US FEDERAL INFORMATION:**

CHEMICAL NAME	SARA TITLE III			
	SECTION 302 (EHS) TPQ (LBS)	SECTION 304 EHS RQ (LBS)	CERCLA RQ (LBS)	SECTION 313 (TRI)
Sulfamic Acid	Not Listed	Not Listed	Not Listed	Not Listed

**15.3. US STATE RIGHT TO KNOW LAWS:**

<b>California Proposition 65:</b>	<b>WARNING!</b> This product does <b>NOT</b> contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm
<b>Other U.S. States "Right to Know" Lists:</b>	
<b>New Jersey:</b>	Sulphamidic Acid: <b>CAS-No 5329-14-6</b>
<b>Pennsylvania:</b>	Sulphamidic Acid: <b>CAS-No 5329-14-6</b>
<b>Massachusetts:</b>	Not Available
<b>Minnesota:</b>	Not Available
<b>Florida:</b>	Not Available
<b>Michigan:</b>	Not Available

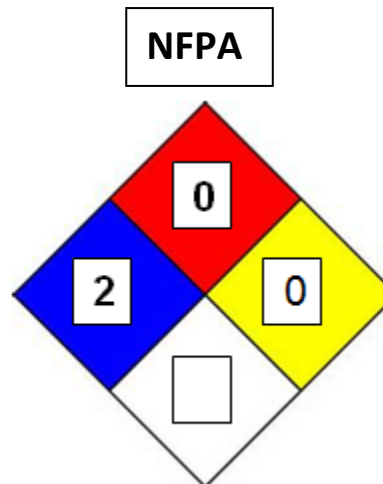
**15.4. GLOBAL INVENTORIES**

Chemical Name	USA TSCA	Canada DSL/NDSL
Sulfamic Acid	Yes	DSL

**15.5. NFPA AND HMIS RATINGS:**

# SAFETY DATA SHEET

<p align="center"><b>HEALTH HAZARD</b></p> <p><b>4 EXTREME</b> - Highly toxic - May be fatal on short-term exposure.</p> <p><b>3 SERIOUS</b> - Toxic - Full protective suit and breathing apparatus should be worn.</p> <p><b>2 MODERATE</b> - Breathing apparatus and face mask must be worn.</p> <p><b>1 SLIGHT</b> - Breathing apparatus may be worn.</p> <p><b>0 MINIMAL</b> - No precautions necessary.</p>	<p align="center"><b>FLAMMABILITY HAZARD</b></p> <p><b>4 EXTREME</b> - Extremely flammable gas or liquid. Flash Point below 73°F.</p> <p><b>3 SERIOUS</b> - Flammable. Flash Point 73°F to 100°F.</p> <p><b>2 MODERATE</b> - Combustible. Requires moderate heating to ignite. Flash Point below 200°F.</p> <p><b>1 SLIGHT</b> - Slightly combustible. Requires strong heating to ignite.</p> <p><b>0 MINIMAL</b> - Will not burn under normal conditions.</p>
<p align="center"><b>SPECIFIC HAZARD</b></p> <p>OXIDIZER <b>OXY</b></p> <p>ACID <b>ACID</b></p> <p>ALKALI <b>ALK</b></p> <p>CORROSIVE <b>COR</b></p> <p>Use NO WATER <b>W</b></p> <p>RADIATION ☸</p>	<p align="center"><b>INSTABILITY HAZARD</b></p> <p><b>4 EXTREME</b> - Explosive at room temperature.</p> <p><b>3 SERIOUS</b> - May detonate if shocked or heated under confinement or mixed with water.</p> <p><b>2 MODERATE</b> - Unstable. May react with water.</p> <p><b>1 SLIGHT</b> - May react if heated or mixed with water.</p> <p><b>0 MINIMAL</b> - Normally stable. Does not react with water.</p>



Hazard Index	
4	<b>Severe Hazard</b>
3	<b>Serious Hazard</b>
2	<b>Moderate Hazard</b>
1	<b>Slight Hazard</b>

2 HEALTH	<b>PROTECTIVE EQUIPMENT INDEX</b>	
0 FLAMMABILITY	<b>A</b>	<b>G</b>
0 REACTIVITY	<b>B</b>	<b>H</b>
0 PERSONAL PROTECTION	<b>C</b>	<b>I</b>
B	<b>D</b>	<b>J</b>
	<b>E</b>	<b>K</b>
	<b>F</b>	<b>X</b> Ask your supervisor for special handling instructions.

## SAFETY DATA SHEET

### 15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

<b>CP65</b>	California Proposition 65
<b>OSHA (O)</b>	Occupational Safety and Health Administration
<b>ACGIH (G)</b>	American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> <li>• A1 – Confirmed human carcinogen</li> <li>• A2 – Suspected human carcinogen</li> <li>• A3 – Animal carcinogen</li> <li>• A4 – Not classifiable as a human carcinogen</li> <li>• A5 – Not suspected a human carcinogen</li> </ul>
<b>IARC (I)</b>	International Agency for Research on Cancer <ul style="list-style-type: none"> <li>• 1 – The agent (mixture) is carcinogenic to humans</li> <li>• 2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> <li>• 4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</li> </ul>
<b>NTP (N)</b>	National Toxicology Program <ul style="list-style-type: none"> <li>• 1 – Known to be carcinogens</li> <li>• 2 – Reasonably anticipated to be carcinogens</li> </ul>

### Section 16: OTHER INFORMATION

**Date of Preparation:** June 1, 2015

**Version:** 3.0

**Revision Date:** N/A

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

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## End of Safety Data Sheet