



## 1. IDENTIFICATION

**Product Name** A-1 RUST SOUR POWDER

**Product Code**

**Recommended use and restrictions**

**Intended use** Laundry additive

**COMPANY IDENTIFICATION**

A-1 Products

1235 E. Kennestone Cir.

2020 Avenue F. Ensley

Marietta, GA 30066

Birmingham, AL 35218

Phone (770) 428-5545

(205) 787-1403

Toll-Free (800) 969-7659

**EMERGENCY TELEPHONE NUMBER**

INFOTRAC (800) 535-5053

## 2. HAZARDS IDENTIFICATION

**Hazard Classification**

Acute Toxicity, Oral Category 3

Acute Toxicity, Inhalation Category 3

Acute Toxicity, Dermal Category 3

Acute Aquatic Toxicity Category 3

Chronic Aquatic Toxicity Category 3

**Hazard Pictograms**



**Signal Word**

DANGER!

**Hazard Statements**

H301+ H311 + H331: Toxic if swallowed, in contact with skin, or if inhaled

H314: Causes severe skin burns and eye damage

H412: Harmful to aquatic life with long lasting effects

**Precautionary Statements**

P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling

P270: Do not eat, drink, or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+310: IF SWALLOWED: immediately call the POISON CENTER or doctor.

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



P404: Store in closed container.

P501: Dispose of contents/container to an approved waste disposal facility in accordance with local/regional/national/international regulations

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Nature** Mixture

#### Hazardous Ingredients and Impurities

Chemical Name	CAS#	Percentage
Sodium silicofluoride	16893-85-9	60 – 80%
Oxalic acid dihydrate	6153-56-6	10 – 20%

### 4. FIRST AID MEASURES

#### Description of first-aid measures

##### General Advice

- First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Show this material safety data sheet to the doctor in attendance.

##### In case of inhalation

- Move affected individual to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration; if by mouth-to-mouth use rescuer protection (pocket mask, etc.). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician if necessary.

##### In case of skin contact

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

##### In case of eye contact

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- Seek medical advice

##### In case of ingestion

- If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

##### Most important symptoms and effects, both acute and delayed

- Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.
- Skin contact may aggravate an existing skin disease.

##### Notes to physician

- All treatments should be based on observed signs and symptoms of distress in the patient.
- Treat symptomatically.
- There is no antidote.

### 5. FIREFIGHTING MEASURES



**Flash Point** > 201°F (Pensky Marten Closed Cup)

**Autoignition Temperature** No data available

**Flammability/Explosive limit** No data available

### Extinguishing media

#### **Suitable extinguishing media**

- Water fog or spray
- Dry chemical fire extinguishers
- Foam
- Carbon dioxide CO<sub>2</sub>

#### **Unsuitable extinguishing media**

- None known

### Special hazards arising from the substance or mixture

#### **Specific hazards during fire fighting**

- Hazardous decomposition products may form while on fire

#### **Hazardous combustion products**

- Oxides of carbon and fluorine

### Advice for fire fighters

#### **Special protective for fire fighters**

- Wear a positive-pressure self-contained breathing apparatus (SCBA) and full protective clothing

#### **Firefighting methods**

- Do not use a direct water stream as it may spread fire.
- Isolate fire and deny unnecessary entry. Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

- Isolate area and deny unnecessary entry
- Wear suitable protective equipment.
- Refer to Section 8 "Exposure controls/ personal protection"
- Ventilate area of leak or spill

### Environmental precautions

- Prevent spill material from entering soil, ditches, waterway or groundwater
- Spills may be reportable to the National Response Center and/or to state and local agencies

### Methods and materials for containment and cleaning up

- Absorb material with sand, dirt, diatomaceous earth, vermiculite, etc...
- Shovel or sweep up material
- Place in a container for disposal according to local, state, or federal regulations

## 7. HANDLING AND STORAGE

### Precautions for safe handling



- Wear personal protective equipment and observe good industrial hygiene practices.

**Conditions for safe storage, including incompatibilities**

- Store in the original container.
- Keep the container tightly closed when not in use.
- Keep away from open flames, hot surfaces, and ignition sources
- Keep away from any incompatible materials

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Due to variations in safety procedures, work environments, and handling practices, these recommendations should be viewed as general guidance. Most equipment manufactures can assist with the use and maintenance of worker protection equipment.

**Control parameters**

Component	Regulation	Type of Listing	Value
Oxalic acid dihydrate	OSHA	TWA	1 mg/m3
	ACGIH	TWA	1 mg/m3

**Exposure controls**

**Engineering measures**

- Use engineering controls to keep airborne levels below exposure limits to minimize employee exposures.
- Effective exhaust ventilation system
- Eye wash facilities and emergency shower should be available when handling this product

**Individual protection measures**

- Eye/face protection: Safety glasses with side shields
- Skin/hand protection: Wear suitable protective gloves, clothing, and footwear.
- Respiratory protection: Wear suitable respiratory equipment in cases of insufficient ventilation. Select NIOSH.MSHA approved equipment in accordance to industrial recommendations or regulatory standards.

**Hygiene measures**

- Practice good personal hygiene measures, such as washing hands after handling the material and before eating, drinking, smoking, applying cosmetics, or using the toilet.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

**Physical state**

Solid

**Form**

Solid

**Color**

White

**Odor**

None

**Odor Threshold**

No data available

**pH**

2 – 3 @ 1%

**Melting/freezing point**

No data available

**Boiling point**

No data available

**Flash Point**

> 201°F (Pensky Marten Closed Cup)

**Evaporation Rate**

No data available

**Flammability (solid)**

No data available

**Flammability (gas)**

No data available



<b><u>Flammability (liquid)</u></b>	No data available
<b><u>Upper/lower flammability or explosive limits</u></b>	
<b><u>Lower (%)</u></b>	No data available
<b><u>Upper (%)</u></b>	No data available
<b><u>Autoignition temperature</u></b>	No data available
<b><u>Vapor pressure</u></b>	No data available
<b><u>Vapor density</u></b>	No data available
<b><u>Relative Density</u></b>	No data available
<b><u>Solubility</u></b>	Soluble (water)
<b><u>Partition coefficient</u></b>	No data available
<b><u>Decomposition temperature</u></b>	No data available
<b><u>Viscosity</u></b>	No data available
<b><u>Volatiles by volume</u></b>	0%

## 10. STABILITY AND REACTIVITY

<b><u>Reactivity</u></b>	No dangerous reaction known under conditions of normal use.
<b><u>Chemical stability</u></b>	Product is stable under normal conditions.
<b><u>Possible hazardous reactions</u></b>	Mixing with incompatible materials may cause splattering and release of large amounts of heat.
<b><u>Conditions to avoid</u></b>	Mixing with incompatible materials
<b><u>Incompatible Materials</u></b>	Strong alkalis and oxidizing agents
<b><u>Hazardous decomposition products</u></b>	Oxides of carbon and fluorine

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b><u>Inhalation</u></b>	Causes chemical burns to the respiratory tract. Inhalation of oxalic acid dust or vapor produces irritation of the respiratory tract, protein in the urine, nosebleed, ulceration of the mucous membranes, headache, nervousness, cough, vomiting, emaciation, back pain (due to kidney injury), and weakness.
<b><u>Skin contact</u></b>	Causes skin corrosion
<b><u>Eye contact</u></b>	Risk of serious damage to the eyes. Toxic! May cause burns, nausea, severe gastroenteritis and vomiting, shock and convulsions. May cause renal damage, as evidenced by bloody urine. Estimate fatal dose is 5 to 15 grams. Oxalic acid is corrosive to tissue. When ingested, oxalic acid removes calcium from the blood. Kidney damage can be expected as the calcium is removed from the blood in the form of calcium oxalate. The calcium oxalate then obstructs the kidney tubules.
<b><u>Ingestion</u></b>	

### Acute toxicity

<b><u>Acute oral toxicity</u></b>	LD50 (rat): 125 mg/kg
<b><u>Acute inhalation toxicity</u></b>	No data available
<b><u>Acute dermal toxicity</u></b>	No data available
<b><u>Acute toxicity (other)</u></b>	No data available

### Skin corrosion/irritation

Causes skin corrosion

### Serious eye damage/irritation

Risk of serious damage to the eyes.



**Respiratory or skin sensitization** Does not cause sensitization  
**Germ cell mutagenicity** No data available  
**Carcinogenicity** Not classified as a carcinogen by IARC, ACGIH, NTP, or OSHA

**Toxicity for reproduction and development**  
**Reproductive toxicity** Not expected to cause reproductive effects.  
**Developmental toxicity** Not expected to cause developmental effects.

**Specific target organ toxicity**  
**Single exposure** No data available  
**Repeated exposure** No data available

**Aspiration toxicity** No data available

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**  
**Acute toxicity to fish** LC50(Lepomis macrochirus): 49 mg/L, 96 hours  
**Acute toxicity to aquatic invertebrates** No data available  
**Toxicity to aquatic plants** No data available  
**Toxicity to microorganisms** No data available  
**Chronic toxicity to fish** No data available  
**Chronic toxicity to aquatic invertebrates** No data available  
**Chronic toxicity to aquatic plants** No data available

**Persistence and degradability**  
**Biodegradability** Inorganic. Not subject to biodegrade

**Bioaccumulative potential**  
**Partition coefficient: n-octanol/water** No data available  
**Bioconcentration factor (BCF)** No data available

**Mobility in soil** No data available  
**Other adverse effects** No data available

## 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Dispose of contents/container in accordance with local/state/federal regulations.  
**Hazardous waste code** Regulated as a hazardous waste. D002  
**Waste from residues/unused products** Dispose of contents/container in accordance to local/state/federal regulations.  
**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORTATION INFORMATION

UN Number	Description	Hazardous Class	Packing Group	Label
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# SAFETY DATA SHEET

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Issue Date: 03/04/24

Revision Date: 03/04/24

Version: 01

<b>DOT</b>	UN2856	Fluorosilicates, n.o.s. (Sodium Fluorosilicate)	6.1	III	
<b>IATA</b>	UN2856	Fluorosilicates, n.o.s. (Sodium Fluorosilicate)	6.1	III	
<b>IMDG</b>	UN2856	Fluorosilicates, n.o.s. (Sodium Fluorosilicate)	6.1	III	

**Marine Pollutant (Yes/No)**

No

**Notes**

Please refer to latest shipping document for the most up to date shipping information including exemptions and special circumstances. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations

### 15. REGULATORY INFORMATION

**Inventory Information**

- United States TSCA Inventory
- Canadian Domestic Substances List (DSL)
- Australia Inventory of Chemical Substances (AICS)
- Japan. CSCL - Inventory of Existing and New Chemical Substances
- Korea. Korean Existing Chemicals Inventory (KECI)
- China. Inventory of Existing Chemical Substances in China (IECSC)

**Status**

- On TSCA Inventory
- All components of this product are on the Canadian DSL
- On the inventory, or in compliance with the inventory
- On the inventory, or in compliance with the inventory
- On the inventory, or in compliance with the inventory
- On the inventory, or in compliance with the inventory

**US. EPA EPCRA SARA Title III**

**SARA Sections 311/312**

Fire Hazard	Reactivity Hazard	Pressure Hazard	Acute Health	Chronic Health
No	No	No	Yes	Yes

**SARA Section 313 Toxic Chemicals**

Component/Ingredient	CAS #	Concentration
No component listed		

**SARA Section 302 Extremely Hazardous Substance**

Component/Ingredient	CAS #	Reportable Qty.
No component listed		



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### SARA Section 304 Emergency Release Notification

Component/Ingredient	CAS #	Reportable Qty.
No component listed		

### US. EPA CERCLA Hazardous Substances and Reportable Quantities

Component/Ingredient	CAS #	Reportable Qty.
No component listed		

### Clean Air Act (CAA)

Component/Ingredient	CAS #
No component listed	

### Safe Drinking Water Act (SDWA)

Component/Ingredient	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
No component listed				

### US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

Component/Ingredient	CAS #
No component listed	

## 16. OTHER INFORMATION

### NFPA (National Fire Protection Association) – Classification

Health	3
Flammability	0
Reactivity	0

### HMIS (Hazardous Materials Identification System – Classification

Health	3
Flammability	0
Reactivity	0

PPE Determined by user; dependent on local conditions

### Further Information

Issue Date 03/04/24  
Revision Date 03/04/24  
Version # 01  
Revision Note None

### Disclaimer

The information provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge, information, and belief at the date of its publication. This SDS is designed only as a guidance for the products to which it applies. No warranty, express, or implied, is given with regards to the accuracy, completeness, or adequacy of the information contained herein. Regulations requirements are subject to change and may differ between various locations, and it is the user's responsibility to ensure that their activities comply with all federal, state, and local laws. The manufacturer, agent, directors, officers, contractors, or employees of either are not liable to any party for any damages of any nature arising out of or in connection with the accuracy, completeness, adequacy, or furnishing of any information in the SDS.





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