



COMPLETE CLEANING SOLUTIONS

SAFETY DATA SHEET

ACP-115E – Scale, Lime, Rust Remover & Brightener

Date: 08/14/2024

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Scale, Lime, Rust Remover & Brightener

Other Means of Identification

UN/ID No UN2967
Product Code 115E

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Scale, Lime & Rust Remover / Cleaner.

Details of the Supplier of the Safety Data Sheet

Manufacturer Address Arrow Chemical Products, Inc.
5933 W. KL Ave
Kalamazoo, MI 49009

Emergency Telephone Number

Company Phone Number 313-237-0277
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion/Irritation	Category 1 Sub-category C
Serious Eye Damage/Eye Irritation	Category 1

Signal Word DANGER

Hazard Statements

Causes severe skin burns and eye damage
Harmful if swallowed
May be harmful if inhaled
May cause respiratory irritation



Appearance: Clear light yellow liquid

Physical State: Liquid

Odor: Mild Acid/Detergent

Precautionary Statements - Prevention

Do not taste or swallow.
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Seek immediate medical attention/advice.
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 ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
IF SWALLOWED: Rinse mouth. DO NOT induce vomiting Seek immediate medical attention/advice.

Precautionary Statements - Storage

Store locked up. Store in a cool dry place. KEEP AWAY FROM CHILDREN.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Sulfamic acid	5329-14-6	10 - 20
Hydrogen Chloride	7647-01-0	0 - 5

4. FIRST AID MEASURES

First Aid Measures

- General Advice** Provide this SDS to medical personnel for treatment.
- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Seek immediate medical attention/advice.
- Eye Contact** Flush material out immediately with large amounts of water for at least 15 minutes, holding eye lids apart to insure flushing of the entire surface. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.
- Ingestion** Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Drink 1-2 glasses of water. If vomiting occurs spontaneously, keep airway clear. Get medical attention immediately.
- Skin Contact** Immediately remove contaminated clothing and flush affected areas with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention immediately.

Most Important Symptoms and Effects, both Acute and Delayed

- Symptoms** Can cause irritation of the skin with pain, itching and redness. May cause gastrointestinal irritation with symptoms such as nausea, vomiting, and diarrhea. Inhalation can cause sore throat, coughing, and shortness of breath.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically. Treat as for thermal burns. Severe inhalation exposures may result in delayed pulmonary edema; in these cases consider close observation for 24 to 48 hours.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Foam, carbon dioxide or dry chemical may be used in areas where this product is stored.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

When involved in a fire, this product may decompose and produce corrosive and/or toxic gasses (i.e.: ammonia and sulfur oxides).

Hazardous Combustion Products This product is not combustible.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Wear protective clothing as required.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Prevent entry into sewers, basements or confined areas; dike if needed.

Methods for Cleaning Up Soak up with inert absorbent material. Neutralize the residue with a dilute solution of sodium bicarbonate, soda ash, or calcium oxide. Sweep up and shovel into suitable containers for disposal. Thoroughly wash area and allow to dry before allowing foot traffic.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wear appropriate personal protective equipment. Wash face, hands, and any exposed skin thoroughly after handling. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep locked up and out of reach of children. Storage temperature should be between 50°F - 120°F.

Incompatible Materials Chlorine, metal nitrites + heat, metal nitrites + heat, and fuming nitric acid.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen Chloride 7647-01-0	Ceiling: 2 ppm	Ceiling: 5 ppm Ceiling: 7 mg/m ³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³

Appropriate Engineering Controls

Engineering Controls Good general room ventilation should be adequate under normal conditions. Emergency eye wash stations and showers should be available within the work area.

Individual Protection Measures, such as Personal Protective Equipment

- Eye/Face Protection** Chemical safety goggles/face shield.
- Skin and Body Protection** Wear protective gloves and protective clothing. Rubber or PVC (gloves).
- Respiratory Protection** No special equipment needed.
- General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Mild Acid/Detergent
Appearance	Clear light yellow liquid	Odor Threshold	Not determined
Color	Clear light yellow		
Property	Values	Remarks • Method	
pH	0.0 – 1.0		
Melting Point/Freezing Point	Not applicable		
Boiling Point/Boiling Range	Not determined		
Flash Point	Not applicable		
Evaporation Rate	<1	(Water = 1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not applicable		
Lower Flammability Limit	Not applicable		
Vapor Pressure	Not determined		
Vapor Density	Not determined		
Specific Gravity	1.07		
Water Solubility	Completely soluble		
Solubility in Other Solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition Temperature	Not determined		
Decomposition Temperature	Not determined		
Kinematic Viscosity	Not determined		
Dynamic Viscosity	Not determined		
Explosive Properties	Not an explosive		
Oxidizing Properties	Not determined		
RVOC Content (%)	<0.5%		

12. ECOLOGICAL INFORMATION

Ecotoxicity

As with all chemical substances, do not release product into the environment.

Persistence and Degradability

Biodegradable.

Bioaccumulation

Not expected to accumulate.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling.

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT

UN/ID No

UN3264

Proper Shipping Name

Corrosive Liquid, Acidic, Inorganic N.O.S. (Sulfamic Acid)

Hazard Class

8

Packing Group

III

Additional Information

Limited Quantity, DOT Label/Placard Exemption §173.154 applies

IATA

UN/ID No

UN3264

Proper Shipping Name

Corrosive Liquid, Acidic, Inorganic N.O.S. (Sulfamic Acid)

Hazard Class

8

Packing Group

III

IMDG

UN/ID No

UN3264

Proper Shipping Name

Corrosive Liquid, Acidic, Inorganic N.O.S. (Sulfamic Acid)

Hazard Class

8

Packing Group

III

15. REGULATORY INFORMATION

International Inventories

TSCA

Listed

DSL

Listed

NDSL

Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

CERCLA Reportable Quantity

The following components are listed:

Chemical Name	CAS Number	CERCLA RQ
Hydrogen Chloride	7647-01-0	5000 lbs.

SARA 313

No ingredients of this product contain chemical (s) that are subject to reporting levels established by SARA Title III, Section 313.

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sulfamic acid 5329-14-6	X		
Hydrogen Chloride 7647-01-0	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	2	0	0	B

Disclaimer

The information provided in this Safety Data Sheet 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. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet