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## DRY ACID SCALE REMOVER

Data Sheet: 111  
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This Material Safety Data Sheet complies with OSHA Hazard Communication Standard 29 CFR 1910.1200.

### SECTION 1: COMPOSITION / INFORMATION ON INGREDIENTS

If present, IARC, NTP, and OSHA Carcinogens, are identified with an asterisk (\*) in this Section. For more information on exposure limits refer to 29 CFR 1910.1000.

<u>Ingredient(s)</u>	<u>Exposure Limits</u>	<u>Percent</u>	<u>Note</u>
Sulfamic Acid (CAS#: 5329-14-6)	Not Established	>95%	

### SECTION 2: HAZARDS IDENTIFICATION

**Permissible Exposure Limits:** Not established for this product

**Effects of Acute Overexposure:**

**Eyes:** Exposure to dusts or contact with solid causes severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and eye damage. Burning may not be immediately painful or visible. Prolonged or repeated exposure may cause irreversible eye damage including corneal damage and blindness.

**Skin:** Exposure to dusts or contact with solid causes severe skin irritation. Symptoms may include redness, burning and severe skin damage. Prolonged or repeated exposure may cause irreversible skin damage including burns. Skin absorption is unlikely.

**Breathing:** Exposure to dust is possible under certain conditions such as mixing or stirring and may cause irritation, or severe or irreversible respiratory tract damage.

**Swallowing:** Exposure may be harmful or fatal. Symptoms may include: severe irritation to the mouth, throat and stomach and result in severe gastrointestinal upset such as diarrhea, nausea, and vomiting. Symptoms may also include burns to the mouth, throat and digestive tract.

**Primary Route(s) of Entry:** Skin contact, eye contact, and inhalation.

**Effects of Chronic Overexposure:** None Known. The components in this material are not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

**Medical Conditions Aggravated by Exposure:** Skin contact may aggravate existing dermatitis or other significant skin conditions. Inhalation may adversely affect existing respiratory conditions.

### SECTION 3: FIRST AID MEASURES

**Eyes:** Immediately remove individual from exposure area and into fresh air. Flush eyes with water for at least 30 minutes while holding eyelids apart. Seek medical attention.

**Skin:** Remove contaminated clothing immediately. Wash exposed area with large amounts of soap and water. If skin is damaged or symptoms develop, seek immediate medical attention.

**Breathing:** If affected, remove individual to fresh air. If breathing is difficult, administer oxygen (if you have been trained in its use). If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get immediate medical attention.

**Swallowing:** Do not induce vomiting. Vomiting will cause further damage to the throat. Get medical attention immediately. If individual is conscious and alert, immediately rinse mouth with water and dilute the swallowed material with milk or water. Seek immediate medical attention.

### SECTION 4: FIRE FIGHTING MEASURES

**Flash Point:** n/a      **Explosive Limit:** n/a

**Extinguishing Media:** Alcohol foam, carbon dioxide, dry chemical

**Hazardous Decomposition Products:** May form toxic materials including, but not limited to the following: acid vapors, nitrogen oxides, and sulfur oxides.

**Fire Fighting Procedures:** Do not use water directly on material. Wear self contained breathing apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fire fighting.

**Special Fire and Explosion Hazards:** May ignite combustible materials. Flammable, poisonous gasses may accumulate in closed containers.

### SECTION 5: ACCIDENTAL RELEASE MEASURES

**Small Spill:** Sweep, shovel or vacuum spilled materials avoiding contact with the material. Ventilate area well before re-entry, however, do not provide excessive local ventilation with mechanical exhaust fans because of dust being circulated in the room causing contact with the eyes, skin and mucous membranes. Appropriate personal protective equipment should be worn.

**Large Spill:** Only personnel trained in spill clean-up under 29 CFR 1910.120 should be involved with spill clean-up procedures. Prevent material from entering drains, sewers, streams, or other bodies of water. Prevent from spreading. If spilled material is mixed with a liquid and run-off occurs, notify appropriate authorities as required. Vacuum transfer spilled product to clean containers for recovery. Transfer contaminated absorbent and other materials to container for neutralization. Neutralize spilled material. Follow local, state and federal regulations for proper disposal.

**SECTION 6: HANDLING AND STORAGE**

Keep containers closed when not in use. Do not transfer to unmarked containers. Loosen closure carefully.

**SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Respiratory Protection:** Not required under normal conditions of use; however, if dusts are generated or if used in confined areas, a NIOSH/MSHA approved respirator may be advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA approved respirators under specified conditions – see 29 CFR 1910.134 or your safety equipment supplier. Engineering and/or administrative controls should be implemented to reduce exposure.

**Ventilation:** Provide sufficient mechanical ventilation (general and/or local exhaust) to maintain exposure below the recommended exposure limits.

**Protective Gloves:** Wear chemical resistant gloves such as neoprene. Contact your safety equipment supplier.

**Eye Protection:** Chemical goggles and a face shield to prevent contact with the face or eyes, in compliance with OSHA regulations.

**Other Protective Equipment:** Wear impervious clothing and boots to prevent repeated or prolonged skin contact.

**SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES**

<u>Property</u>	<u>Measurement</u>	<u>Property</u>	<u>Measurement</u>
Boiling Point	Decomposes	Specific Gravity	2.15
Vapor Pressure	Negligible	Solubility In Water	soluble
Appearance	crystals	Vapor Density	>1 (Air = 1)
Percent Volatiles	Not applicable		

**SECTION 9: STABILITY AND REACTIVITY**

**Hazardous Polymerization:** Cannot occur.

**Stability:** Stable as a dry solid, but hydrolyzes in water to form ammonium sulfate and bisulfate.

**Incompatibility:** Avoid contact with strong oxidizers, strong bases, and chlorine. Do not mix with any products.

**SECTION 10: TOXICOLOGICAL INFORMATION**

No data available at this time.

**SECTION 11: ECOLOGICAL INFORMATION**

No data available at this time.

**SECTION 12: DISPOSAL CONSIDERATIONS**

Dispose of in accordance with all Local, State, and Federal Regulations.

This product may be classified as an RCRA Hazardous Waste D002 due to the pH of the solution and the corrosive characteristics.

**SECTION 13: TRANSPORTATION INFORMATION**

**Dot Hazard Classification:** Sulfamic acid solution. 8, (Corrosive material), UN 2967

**SECTION 14: REGULATORY INFORMATION**

**SARA TITLE III, section 313 chemicals:** None known

**SARA TITLE III, section 312 Health** --Acute (Yes) Chronic (No) Fire (No) Reactivity (Yes). Proposition 65: No

**SECTION 15: OTHER INFORMATION**

Containers used to transport and store this material may be hazardous when emptied. Residue (Vapor, Liquid, and/or Solid) may be present in the emptied container. All hazard precautionary measures should be followed.

The information accumulated and reflected in this Material Safety Data Sheet is believed to be accurate but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

End of MSDS.