

MATERIAL SAFETY DATA SHEET – D-SCALE

Manufactured by: Alklean Industries, Inc.
2111 Catalina
Pasadena, TX 77503

FOR EMERGENCY CALL INFOTRAC
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SECTION I – PRODUCT IDENTIFICATION

Product Name: D-Scale
Synonyms: Amidosulfonic acid, Amidosulfuric acid, Aminosulfonic acid, Sulfamidic acid.
Chemical Description: Inorganic Acid
Intended Use: Dissolve lime deposits and hard water scale in pressure washer coils.

SECTION II – HAZARDOUS INGREDIENTS

Chemical ID	CAS Number	% Weight	OSHA PEL	ACGIH TLV
Amidosulfuric Acid	5329-14-6	>99		

SECTION III – PHYSICAL & CHEMICAL PROPERTIES

Appearance and Odor: white crystalline solid, odorless pH: 1.18
Boiling Point °F/C: decomposes at 408 °F./ 209 °C Specific Gravity (Water=1): 2.126
Vapor Pressure (mm Hg): Not volatile Melting Point (°F/C): 401 °F
Vapor Density (Air=1): Not volatile Evaporation Rate (Butyl Acetate=1):
Solubility in Water: 100 °F, wt%=22, gm/100gm.H2O=28

SECTION IV – FIRE AND EXPLOSION HAZARD

Flash Point (Method): Will not burn Flammable Limits (LFL/UFL): Will not burn
Extinguishing Media: Water, chemical foam or carbon dioxide may be used for fires in the area.
Special Fire Fighting Procedures:
Fire and Explosion Hazards: Product is not combustible. CAUTION: Fire may produce toxic gases of ammonia and sulfur oxides. Aqueous solutions of this product are very acidic. Closed containers exposed to heat may explode. May release sulfur dioxide (SO₂), Sulfur trioxide (SO₃) and ammonia gas (NH₃) if involved in a fire

SECTION V – HEALTH HAZARD AND FIRST AID

Routes of Entry (Inhale, Ingest, Skin, Eye): Inhalation and/or skin contact and/or ingestion
Health Hazard (Acute and Chronic): Causes eye burns and irritates nose, throat and skin
Carcinogen/Details:
OSHA Regulated?

Signs and Symptoms of Exposure: See "Health Hazard" above

Medical Conditions Generally Aggravated by Exposure:

Emergency and First Aid Procedures:
EYES: Immediately (in less than one minute) flush eyes with plenty of water for 30 minutes. Seek medical attention immediately after flushing eyes for 30 minutes.
SKIN: Immediately flush skin with water while removing contaminated clothing. If irritation persists, seek medical advice. Completely decontaminate clothing before reuse. Shoes and leather goods should be discarded.
INGESTION: DO NOT induce vomiting. Obtain medical advice immediately. Have victim rinse mouth thoroughly with water. Immediately give larger amounts of water. If vomiting occurs, rinse mouth and repeat administration of water. Never give anything by mouth to a victim who is unconscious or having convulsions.
INHALATION: If symptoms are experienced, remove sources of contamination or move victim to fresh air. If symptoms persist, obtain medical advice immediately.

SECTION VI – STABILITY AND REACTIVITY

Stability: Stable Conditions to Avoid: Elevated temperatures
Incompatibles: Hazardous reaction in aqueous solution may occur with chlorine, hypochlorous acid hypochlorites, cyanides or sulfides.
Hazardous Decomposition: Sulfur dioxide (SO₂), sulfurtri-oxide (SO₃), ammonia gas (NH₃)
Hazardous Polymerization: Will Not Occur

SECTION VII – HANDLING AND STORAGE

Handling: Do not inhale dusts. Do not get in contact with eyes, skin, and clothing. Use in designated areas with adequate ventilation. Keep in dust-tight containers. Keep away from all heat sources. Prevent release of dusts into the workplace.

Respiratory Protection: Avoid inhalation of dust. Use general mechanical ventilation. Local exhaust is suggested for use where possible, in enclosed or confined spaces.

Ventilation: Ventilate area

Hand Protection: Rubber gloves

Eye Protection: Safety glasses or goggles

Other Protective Clothing/Equipment: Wear a long sleeved shirt, trousers, safety shoes and a rubber apron. Use acid/gas cartridge respirator or other appropriate NIOSH/MSHA approved respiratory protection as applicable. Have eyewash fountain and safety shower readily available. Use good hygiene practices when handling this material.

Work/Hygienic Practices: Completely decontaminate clothing before reuse. Shoes and leather goods should be discarded.

Storage: Store in a cool, dry, well ventilated area. Store in suitable labeled containers out of direct sunlight. Store away from incompatible materials, including strong bases and oxidizing agents. CAUTION: Empty containers may contain dangerous residues and vapors. Do not cut, grind, weld, or drill near this container.

Other Precautions: Keep away from children and untrained personnel.

SECTION VIII – SPILL AND DISPOSAL

Containment: Stop or reduce leak if safe to do so.

Clean-Up: Prevent material from entering sewers or waterways. Put material in suitable, covered labeled containers.

Disposal: Disposal of waste may be subject to federal, state, and local regulations. Users should review their regulations.

Other Emergency Advice:

SECTION IX – TRANSPORTING**SECTION X – REGULATORY INFORMATION**

US FEDERAL REGULATIONS:

A. GENERAL PRODUCT INFORMATION

This chemical is listed on the TSCA inventory of existing chemicals.

B. COMPONENT INFORMATION

None of this product's components are listed under SARA Section 302(40 CFR 355 Appendix A0, SARA Section 313 (40 CFR 372.65 or CERCLA (40 CFR 302.4)).

SECTION XI – NFPA HAZARD RATINGS

Health

Flammability

Reactivity

0 = Minimal

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

SECTION XII – OTHER INFORMATION

This data is offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made.

The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

SECTION XIII – REFERENCES

END