

MATERIAL SAFETY DATA SHEET
Revised 10/9/2011

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Anion D'Scale

Manufactured by:

Anion Performance Chemicals

PO Box 487

Oakwood GA 30566

Telephone: 877-264-0131

Fax: 877-264-0132

In Case of Emergency – 877-264-0131

SECTION 2: HAZARDS IDENTIFICATION

Components:

<u>Specific Chemical Identity</u>	<u>CAS</u>	<u>% Weight</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>Other Limits</u>
Aqueous Hydrogen Chloride	7647-01-0	8.0	5 ppm	2 ppm (ceiling)	N/A (ceiling)

Health Hazards: If used as directed, is not considered hazardous. Not a carcinogen.

NFPA: Health-1, Flammability-0, Reactivity-1

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Cleaning and Descaling Compound

Formula: Proprietary

SECTION 4: FIRST AID MEASURES

Eye contact: Flush eyes immediately with large quantities of water for at least 15 minutes holding eyelids apart to ensure flushing of the entire surface. Washing eyes within one (1) minute is necessary to achieve maximum effectiveness. If irritation persists, get medical attention.

Skin contact: Wash with plenty of water for 15 minutes. Remove contaminated clothing and wash before reuse. Seek medical attention if symptoms are present.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water or milk of magnesia; if available, several glasses of milk.

Inhalation: Remove to fresh air. If person is not breathing, administer mouth-to-mouth resuscitation. Seek medical attention if loss of consciousness occurs or breathing stops. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None

Flammable Limits: N/A

Extinguishing Media: Water spray, foam, CO₂

Special Fire Fighting Procedures: Use NIOSH/MSHA approved self-contained breathing apparatus in enclosed areas where this material is involved in a fire. This product is nonflammable.

Unusual Fire Fighting and Explosion Hazards: Protective clothing for skin and eye protection should be worn.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is spilled or released: This material is biodegradable. Use appropriate protection—rubber gloves, goggles or safety glasses. Contain spill. Neutralize with copious amounts of water. Slowly add a soda ash mixture to the residue. This mixture shall be 10 pounds of soda ash to 5 gallons of water. This will bring the spilled residue within normal pH of 7.

SECTION 7: HANDLING AND STORAGE

This product has a wide temperature storage range (-15°C to 82°C). Make sure containers are sealed in storage when not used. Shelf life is 5 (five) years.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: None require under normal conditions with adequate general ventilation.

Protected Clothing: Rubber may be used.

Ventilation: Mechanical (general).

Eyes: Safety glasses, goggles.

Other Protective Clothing or Equipment: Standard work clothes should be worn. Wash soiled clothing in soap and water and dry before reuse. Eyewash facilities should be accessible.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 108°C

Specific Gravity (H₂O=1): 1.06

Vapor Pressure (mm. Hg): 20 Torr

Melting Point: -17°C

Vapor Density (air=1): N/A

Evaporation Rate: N/A

Solubility in Water: Complete

Appearance and Odor: Amber, Citrus Odor

pH: < 2

SECTION 10: STABILITY AND REACTIVITY

Conditions contributing to instability: Under normal conditions this product is stable.

Incompatibility: Do not mix with alkaline products.

Hazards Decomposition Products: None

Conditions Contributing to Hazardous Polymerization: None.

SECTION 11: TOXICOLOGICAL INFORMATION

This product does not contain any material shown to be carcinogen by the National Toxicology Program (NTP) or The International Agency for Research in Cancer (IRAC).

While no data is currently available on the ecology of this formulation as a whole, empirically we know that the components of NAK D' Scale are not bio accumulate in animal or plant tissue. It is know that these compounds quickly are broken down or biodegraded into compounds such as carbon dioxide (CO₂) and water (H₂O).

SECTION 12: ECOLOGICAL INFORMATION

This product neutralizes in use and is non-toxic in that state. This product is biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: This product is diluted and decomposes during use. It is recommended that it be pumped back into the delivery container and disposed of with non-hazardous by-products and production residues. Residues can also be disposed of through normal sump and sewage treatment systems.

Precautions to be taken in Handling and Storage: Good industrial hygiene practices should be adhered to when storing and handling this product. Avoid contact with undiluted product. This material when used or completely spent is non-hazardous. It neutralizes itself in use.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT Proper Shipping Name: Cleaning Preparation, NMFC No. 3402.90.5030

For Overseas Shipments: Use No. 3402.90.5030

SECTION 15: REGULATORY INFORMATION

This product complies with current Workplace Hazardous Information Systems. Non-reportable under SARA Title: 3 Section 311/312/313 Categorization.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title 3: Reportable elements: Hydrochloric Acid, CAS# 7647-01-0

U.S. Toxic Substance Control Act: All ingredients contained in this product have been registered under the Toxic Substance Control Act. This product contains one substance that is subject to reporting—CAS# 7647-01-0 Hydrochloric Acid. This product does not contain any Class I or Class II ozone depleting substance. Neutralization of the product and clean up the area of spillage is undertaken by flooding with copious amount of water and neutralization.

Waste Classification Non-Hazardous: This product neutralizes itself in operation.

SECTION 16: OTHER INFORMATION:

This information contained herein is relative to the product as shipped and used as prescribed dilutions ratios on site.

HMIS Health-1, Flammability-0, Reactivity-1

Most cleaning cycles can be accomplished within a two (2) to four (4) hour cycle. This material should be used only as directed. Use at ambient temperatures.

This Material Safety Data Sheet was prepared in accordance with 29 CFR 1910:1200 and the ANSI Z400.1 sixteen-part format. All information, recommendations and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable; however it is the user's responsibility to determine the safety, toxicity and suitability for their own use of the product described herein. Since actual use by others is beyond our control, no guarantees, expressed or implied, are made by NAK and its representatives as to the effects of such use, the results to be obtained or the safety and toxicity of the product, nor does NAK or its representatives assume any liability arising out of the use by others of the product referred herein. The information herein is not be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws of government regulations.