

Nu-Well 110

SAFETY DATA SHEET (SDS)

I. PRODUCT IDENTIFICATION AND EMERGENCY INFORMATION

Product Name:	NW-110
Chemical Family:	Powdered Sulfamic acid
Application:	Well Rehabilitation
Manufacturer/Supplier:	Aqseptence Group/Johnson Screens P.O. Box 64118 - St. Paul, MN 55164 Telephone Number: 651-636-3900 Contact: Technical Service
Date Issued:	1/01/2017
Replaces Issue:	6/02/2015
24-Hr. Emergency Phone:	CHEMTREC 1-800-424-9300

II. HAZARDS IDENTIFICATION

Physical hazards	Corrosive to metals	Skin corrosion/irritation	Category 1
Health hazards		Serious eye damage/eye irritation	Category 1
		Not classified.	Category 1
Environmental hazards		Not classified	
OSHA defined hazards			

Label elements



Signal word	Danger
Hazard statement	May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage.
Precautionary statement	Keep only in original container. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection
Prevention	
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.
Storage	Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

III. COMPONENTS AND HAZARD INFORMATION

Substance	Product Identifier	Weight Percentage	OSHA PEL
Sulfamic Acid	CAS No. 5329-14-6	>70%	Not established
Activating Agent	Proprietary	Proprietary	Not established

Per CFR §1910.1200, the specific chemical identify and/or exact percentages (concentration) of composition has been withheld as a trade secret.

IV. FIRST AID MEASURES

Inhalation First Aid:	Remove affected person from area to fresh air and provide oxygen if breathing is difficult. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention.
Skin Contact First Aid:	Immediately remove clothing from affected area and wash skin for 15 minutes with flowing water and soap. Clothing should be discarded or washed before reuse. Obtain medical assistance if irritation develops.
Eye Contact First Aid:	Immediately irrigate eyes with flowing water continuously for 15 minutes while holding eyes open. Contacts should be removed before or during flushing. Obtain medical attention immediately.
Ingestion First Aid:	If victim is alert and not convulsing, rinse mouth with water and give plenty of water to drink. If spontaneous vomiting occurs, have affected person lean forward with head down to avoid breathing in of vomitus. Rinse mouth again and give more water to drink. Obtain medical attention.
Medical Conditions Aggravated:	Any condition which limits breathing functions could be aggravated by inhalation of dust particulates. Note to Physician: Strong acid condition exists when product is dissolved in water or body fluids.

V. FIRE AND EXPLOSION HAZARD INFORMATION

Flash Point/Method:	None								
Auto Ignition Temperature:	None								
Upper/Lower Explosion Limits:	N/A								
Extinguishing Media:	Water spray or fog, foam, carbon dioxide, and dry chemical								
Fire Fighting Procedures:	Wear full face, self-contained breathing apparatus. Sulfur dioxide, sulfur trioxide and ammonia gas may be released in a fire. Use water to cool containers exposed to fire. Do not use a direct stream.								
Fire & Explosion Hazards:	Under heat and combustion, vapors may travel a distance to a source of ignition and flash back. When heated to decomposition (300° - 400° F., 149° - 204° C), very toxic fumes of ammonia, nitrous oxide and sulfur oxide.								
Hazardous Products of Decomposition and/or Combustion:	Sulfur dioxide, sulfur trioxide, nitrous oxide, and ammonia gas.								
NFPA Ratings:	<table> <thead> <tr> <th>HEALTH</th> <th>FLAMMABILITY</th> <th>REACTIVITY</th> <th>OTHER</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0</td> <td>3</td> <td>COR</td> </tr> </tbody> </table>	HEALTH	FLAMMABILITY	REACTIVITY	OTHER	1	0	3	COR
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VI. ACCIDENTAL RELEASE MEASURES

Recover salvageable product in bags or containers. Unsalvageable material may be shoveled or swept up for recovery or disposal. Avoid breathing dust. Dike and dissolve residue in water. Neutralize with alkali before flushing to sewer.

All disposal methods must be in compliance with all Federal, State, Local and Provincial laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

VII. HANDLING AND STORAGE PROCEDURES:

Handling: Minimize skin contact. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Bags and containers of this material may be hazardous when emptied. Empty containers retain product residues.

Storage: prevent absorption of moisture and possible caking. Store in a cool, dry place. Do not store with cyanides, sulfides, chlorine, hypochlorous acid, hypochlorites or alkalis. General Comments: Treat as a strong acid

VIII. EXPOSURE CONTROL/PERSONAL PROTECTION:

Respiratory Protection: Dust respirator should be worn where possibility of inhalation of dust or mist exists. None required for normal use.

Skin Protection:	Rubber gloves required.
Eye Protection:	Goggles
Ventilation Protection:	Special ventilation not required, however standard plant ventilation should be available to prevent buildup of high dust concentrations.
Other Protection:	Safety showers with quick opening valves that stay open and eye wash fountains or other means of washing the eyes with a gentle flow of cool to tepid water should be readily available in all areas where this material is handled or stored. Water should be supplied through insulated and heat-traced lines to prevent freeze-ups in cold weather.

Exposure Limits:

OSHA	ACGIH	NIOSH	SUPPLIER
PEL: TWA 15 mg/m ³		None	None

IX. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance & Odor: Grayish white crystalline powder

Vapor Pressure: None

Boiling Point: 320° F. (160°C.)

Specific Gravity: 2.1 @68° F. (20°C.)

Volatile Percentage: N/D

Flash Point/method: N/D/open cup

Upper/Lower Explosion Limits: N/D

Vapor Density (Air=1): N/D

Melting Point: 268°F. (131°C.)

Solubility in Water: 21 %

pH: (Aqueous) 1.18

Auto Ignition Temperature: N/D

X. STABILITY AND REACTIVITY DATA:

Stability: Stable

Incompatibilities: Inorganic bases, alkalis, nitrates, nitrites, cyanides, sulfides, chlorates, chlorine, hypochlorous acid and sodium hypochlorite

Polymerization: No

Decomposition: Sulfur dioxide, sulfur trioxide, and ammonia

Conditions to Avoid: At elevated temperatures, concentrated aqueous solution hydrolyzes rapidly generating heat and steam

XI. TOXICOLOGICAL INFORMATION:

Inhalation - Acute:

Inhalation - Chronic: Irritation of mouth and throat

Skin Contact - Acute: Mild irritation if not washed off

Skin Contact - Chronic: Moderate irritation

Eye Contact - Acute: Severe damage from dry powder

Ingestion - Acute: Oral LD₅₀ rat; 1600 mg/kg

Ingestion - Chronic: Doses higher than 10% will cause lesions on glandular part of stomach

Carcinogenicity/Mutagenicity: None
Reproductive Effects: None
Neurotoxicity: No systemic effects
Other Effects: Target Organs: Only organs in contact such as the mouth or stomach after ingestion

XII. ECOLOGICAL INFORMATION:

This product is considered a strong acid and as such its effect on the environment would be no different than other material of a strong nature. All acids should be neutralized with a caustic or alkaline material to reduce their impact on the environment. The primary consideration of this product in regards to ecology would be the low acidic pH.

XIII. DISPOSAL CONSIDERATIONS:

Neutralize with alkalis. Neutralized liquid may be run to industrial sewer with solids dispatched to an approved waste disposal facility in conformance with local, state, and federal regulations. When working with solution and possible splashing, wear suitable eye, face, and body protection.

Material that cannot be used or chemically reprocessed and empty containers should be disposed of in accordance with all applicable regulations. Product containers should be thoroughly emptied before disposal. Generators of waste material are required to evaluate all waste for compliance with RCRA and any local disposal procedures and regulations.

NOTE: State and local regulations may be more stringent than federal regulations.

XIV. TRANSPORTATION INFORMATION:

Land Transportation

DOT: Sulfamic Acid Mixture, UN2967, Class 8 Packing Group III

Canadian TDG: Sulfamic Acid Mixture, UN2967, Class 8 Packing Group III

XV. REGULATORY INFORMATION:

US Regulations:

US TSCA Inventory

All components listed on inventory

EPA SARA/TITE III-CERCLA list

This product does not contain a "CERCLA" listed hazardous substance for emergency release notification under Sec. 304 (40CFR 372).

EPA RCRA Status: D002- Characteristic of Corrosivity

NSF Certified for use in well cleaning

California Proposition 65: This product does not contain any chemicals currently on the California list of known carcinogens and reproductive toxins.

Canadian Regulations

Canadian DSL (Domestic Substance List) Inventory

All major components listed on inventory

WHMIS Hazard Class

E- Corrosive; D2B- Irritant

CCOHS (Canadian Centre for Occupational Health & Safety): Sulfamic Acid listed as

Corrosive. Due to nature of the product (dust), also may be a respiratory irritant.

XVI. OTHER INFORMATION

Additional Information

Appearance & Odor:	Grayish white crystalline powder
Emergency Overview:	Strong powdered acid - be aware of air movement
Fire & Explosion Hazards:	None
Primary Route(s) of Exposure:	Skin, eyes, and inhalation
Inhalation - Acute Effects:	Irritation of nose and throat, may cause damage to lungs in extreme cases
Skin Contact - Acute Effects:	Skin irritation usually develops over time
Eye Contact - Acute Effects:	May be severe if not immediately washed from the eyes
Ingestion - Acute Effects:	Sour, bitter taste, severe irritation to mouth and esophageal

For additional information on the use of this product, contact your local Johnson representative.

This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.