

# JOHNSON SCREENS®

A Weatherford Company

## Material Safety Data Sheet

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

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**Product Name:** NW-110

**Chemical Family:** Powdered Sulfamic acid

**Application:** Well Rehabilitation

**Manufacturer/Supplier:**

Johnson Screens /A Weatherford Company

P.O. Box 64118 – St. Paul, MN 55164

**Telephone Number:** 651-636-3900

**Emergency Phone Number:** CHEMTREC 1-800-424-9300

**Issue Date:** 01-01-96

**Revision Date/Revision Number:** 01-26-11

Prepared by:

Johnson Screens/A Weatherford Company

Telephone: 1-800-833-9473

### 2. COMPOSITION INFORMATION/INFORMATION ON INGREDIENTS

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Substance	Weight Percent (%)	CAS #	OSHA PEL	ACGIH TWA
Sulfamic Acid	+70%	5329-14-6	not established	

No constituents of the formulae are listed or considered hazardous under OSHA 29CFR 1910.1200

### 3. HAZARDS IDENTIFICATION

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**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

area

#### 4. FIRST AID MEASURES

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**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.

#### 5. FIRE FIGHTING MEASURES

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**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:**

HEALTH	FLAMMABILITY	REACTIVITY	OTHER
1	0	3	COR

## 6. ACCIDENTAL RELEASE MEASURES

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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.

## 7. HANDLING AND STORAGE

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**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

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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**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
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PEL: TWA 15 mg/m3

None

None

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance & Odor:** Grayish white crystalline powder

**Vapor Pressure:** None

**Vapor Density (Air=1):** N/D

**Boiling Point:** 320°F. (160°C.)

**Melting Point:** 268°F. (131°C.)

**Specific Gravity:** 2.1 @68°F. (20°C.)

**Solubility in Water:** 21%

**Volatile Percentage:** N/D

**pH:** (Aqueous) 1.18

**Flash Point/method:** N/D/open cup

**Auto Ignition Temperature:** N/D

**Upper/Lower Explosion Limits:** N/D

**Other:**

## 10. STABILITY AND REACTIVITY

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**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

## 11. TOXICOLOGICAL INFORMATION

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**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 LD<sub>50</sub> 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

## 12. ECOLOGICAL INFORMATION

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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.

## 13. DISPOSAL CONSIDERATIONS

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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.

#### **14. TRANSPORTATION INFORMATION**

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##### **Land Transportation**

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

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

#### **15. REGULATORY INFORMATION**

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##### **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.

## **16. OTHER INFORMATION**

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### **Additional Information**

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

### **Disclaimer Statement**

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the user thereof. It is the buyer's responsibility to ensure that its activities comply with federal, state, provincial and local laws.