

## Safety Data Sheet

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(English /US)

### SECTION 1: IDENTIFICATION

#### 1.1 Product Identifier

Product Name: Nu-Well Descale Plus  
Product Code: NW-110  
Synonyms: Nu-Well 110, Granular Acid  
Product Form: Crystalline Powder  
Chemical Family: Powered Sulfamic acid

#### 1.2 Intended Use of the Product

Use of the substance: Well rehabilitation, Descaling

#### 1.3 Contact Information of the Manufacturer

Johnson Screens / Aqseptence Group  
1950 Old Highway 8 NW  
New Brighton, MN 55112  
USA

Telephone: +1-651-636-3900  
<http://www.johnsonscreens.com/>

#### 1.4 Emergency Telephone Number

Emergency Number: +1-800-262-8200 USA  
+1-703-741-5500 International  
CHEMTREC

### SECTION 2: HAZARDOUS IDENTIFICATION

#### 2.1. Physical Hazards

Corrosive to metals

Category 1

#### Acute toxicity

#### Classification (GHS-US)

Skin Irrit. 1 H314

Eye Irrit. 1 H318

Full text of H-phrases: see Section 1.6

#### 2.2. Label Elements

GHS-US Labelling

Hazard Pictograms (GHS-US):



Signal Word (GHS-US): Danger

Hazard Statements: H314 - Causes skin irritation.

(GHS-US) H318 - Causes serious eye damage.

Precautionary Statements:  
 (GHS-US)

P234 - Keep in original container.  
 P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
 P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
 P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 - Immediately call a POISON CONTROL CENTER, or a doctor.  
 P321 - Specific treatment (see Section 4 on this SDS).  
 P363 - Wash contaminated clothing before reuse.  
 P390 - Absorb spillage to prevent material damage.  
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. If involved in a fire and thermal decomposition occurs, potential toxic and acrid vapors may be released.

### 2.4 Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance: Not Applicable

### 3.2 Mixture

Name	Product Identifier	Percentage	Classification (GHS-US)
Sulfamic Acid	CAS No. 5329-14-6	>70%	Skin Corr. 1C, H314 Eye Dam. 1, H318
Activating Agent	Proprietary	Proprietary	Not classified

See Section 16 for the full text of H-phrases.

### 3.3 PFAS, PFOS, PFC Statement

There are no Perfluorooctanoic Acid (PFOA), Perfluorooctyl Sulfonate (PFOS) or Other Perfluorinated Chemicals (PFCs) in the NW-110 product.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).

**First-aid Measures after Inhalation:** Keep at rest and in a position comfortable for breathing. Seek medical attention. Symptoms may be delayed. Give artificial respiration ONLY if breathing has stopped and give CPR ONLY if there is no breathing and no pulse. Obtain medical attention.

**First-aid Measures after Skin Contact:** Remove/Take off immediately all contaminated clothing. Immediately flush skin with plenty of water and mild soap for at least 15 minutes. Seek medical advice/attention if irritation develops. Wash contaminated clothing before reuse.

**First-aid Measures after Eye Contact:** Immediately rinse with water for a prolonged period while holding the eyelids wide open. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 30 minutes. Obtain medical attention immediately.

**First-aid Measures after Ingestion:** 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.

#### 4.2 Most Important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** Causes mild skin irritation and possible severe eye irritation.

**Symptoms/Injuries after Inhalation:** Inhalation may cause immediate severe irritation progressing quickly to chemical burns. Corrosive to mucus membranes. Corrosive to the respiratory tract. Symptoms may be delayed.

**Symptoms/Injuries after Skin Contact:** Causes severe skin irritation.

**Symptoms/Injuries after Eye Contact:** Causes serious eye irritation.

**Symptoms/Injuries after Ingestion:** May cause irritation of the linings of the mouth, throat, and gastrointestinal tract. Ingestion of a large quantity of this material could result in serious health hazard.

**Chronic Symptoms:** None expected under normal conditions of use.

#### 4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

If you feel unwell, seek medical advice (show the label where possible).

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 Extinguishing Media

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire, water spray or fog, foam, carbon dioxide and dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread product.

#### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

#### 5.3. Advice for Firefighters **Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

Under fire conditions, hazardous fumes will be present. Sulfur dioxide, sulfur trioxide, and ammonia gas may be released in a fire.

**Firefighting Instructions:** Keep upwind. Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. Cover pooling liquid with foam. Containers can build pressure if exposed to radiant heat; cool adjacent containers with flooding quantities of water until well after the fire is out. Withdraw immediately from the area if there is a rising sound from a venting safety device or discoloration of vessels, tanks, or pipelines.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all unnecessary exposure. Do not get in eyes, on skin, or on clothing.

##### 6.1.1 For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Keep upwind.

##### 6.1.2 For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2 Environmental Precautions

Avoid unnecessary release into the environment. Notify authorities if undiluted product enters sewers or public waters.

### 6.3 Methods and Material for Containment and Cleaning Up for Containment

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.

### 6.4 Reference to Other Sections

See Section 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see Section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Minimize skin contact. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink, or smoke in areas where product is used.

**Storage Conditions:** Store in a dry, cool, and well-ventilated area. Keep container closed when not in use. Prevent absorption of moisture and possible caking.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Observe all regulations and local requirements regarding storage of containers. Container remains hazardous when empty, unless properly cleaned. Empty containers retain product residues. Store away from cyanides, sulfides, chlorine, hypochlorous acid, hypochlorites or alkalis.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

For substances listed in Section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

#### Sulfamic Acid (CAS No. 5329-14-6)

USA OSHA: PEL: TWA 15 mg/m<sup>3</sup>

USA ACGIH: None

USA NIOSH: None

## 8.2 Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountain should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilations, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves.  
 Insufficient ventilation: wear respiratory protection.



**Hand Protection:** Impermeable protective gloves.  
**Eye Protection:** Chemical safety goggles.  
**Skin and Body Protection:** Wear suitable protective clothing.  
**Respiratory Protection:** Use a NIOSH approved respirator or self-contained-breathing-apparatus whenever exposure may exceed established Occupational Exposure Limits.

**Environmental Exposure Controls:** Do not allow the product to be released into the environment.  
**Consumer Exposure Controls:** Do not eat, drink, or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

Physical State:	Crystalline Powder	Odor:	Slight chemical odor
Appearance:	Grayish White	Auto Ignition Temp:	Non-detect (none)
pH (Aqueous):	1.18	Specific Gravity:	2.1 at 20°C (68°F)
Boiling point:	160°C (320°F)	Melting Point:	131°C (268°F)
Vapor Density: Air=1	N/D	Vapor Pressure:	None
Solubility in water:	21%	Volatile Percentage:	N/D

**9.2 Other Information:** No additional information

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:** Hazardous reactions will not occur under normal conditions.

**10.2 Chemical Stability:** Stable under recommended handling and storage conditions (see Section 7).

**10.3 Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

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

**10.5 Incompatible Materials:** Inorganic bases, alkalis, nitrates, nitrites, cyanides, sulfides, chlorates, chlorine, hypochlorous acid and sodium hypochlorite.

**10.6 Hazardous Decomposition Products:** Sulfur dioxide, sulfur trioxide and ammonia.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on Toxicological Effects**

**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:** LD50 oral rat; 1600 mg/kg

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

**Carcinogenicity:** Not Classified.

**Reproductive Toxicity:** Not Classified.

**Neurotoxicity:** No systemic effects.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

**Ecology – General:** 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.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste Treatment Methods**

**Sewage Disposal Recommendations:** 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.

**Waste Disposal Recommendations:** 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.

**SECTION 14: TRANSPORTATION INFORMATION****14.1 In Accordance with DOT**

Not regulated as a hazardous material by the US Dept. of Transportation (DOT) 49CFR 172.101  
Hazardous Materials Table

**Proper Shipping Name:** Sulfamic Acid Mixture

**Hazard Class:** Class 8

**Identification Number:** UN2967

**Label Codes:** Corrosive

**Packing Group:** III

**14.2 In Accordance Canadian TDG**

**Proper Shipping Name:** Sulfamic Acid Mixture

**Hazard Class:** Class 8

**Identification Number:** UN2967

**Label Codes:** Corrosive

**Packing Group:** III

**SECTION 15: REGULATORY INFORMATION**

**15.1 RCRA Status:** D002 – Characteristic of corrosivity.

**15.2 SARA/TITLE III-CERCLA List:** This product does not contain a “CERCLA” listed hazardous substance for emergency release notification under Sec. 304 (40CFR 372).

**15.3 TSCA Inventory Status:** Chemical components listed on TSCA Inventory.

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

**15.5 Canadian WHMIS Classification:** E-Corrosive, D2B-Irritant

**15.6 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.

**SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION**

**Date of Issue:** 06/02/2015

**Revision Date:** 03/18/2022 Version: 3 (English US)

**Other Information:** This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:**

Eye Irrit. 1	Eye damage/eye irritation Category 1
Skin Corr. 1	Skin corrosion/irritation Category 1
H314	Causes severe skin burns and eye damage
H318	Causes severe eye damage.

**Disclaimer** The information contained in this SDS was compiled using the latest and most reliable information available at the time of printing. The information contained herein is based on data considered accurate and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed or relied upon as guaranteeing any **specific** property of the product, and, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the user thereof.