

## SECTION 1: IDENTIFICATION

### 1.1 Product Identifier

Product Name: NW-220  
Synonyms: Clay dispersant  
Product Form: Liquid, mixture  
Chemical Family: Aqueous solution of polyelectrolytes.

### 1.2 Intended Use of the Product

Use of the substance: Solution used to enhance well development, targeting removal of mud, clay, and formation sediments; used at a rate of 0.2 to 0.4% of the borehole volume

Use of the substance: For professional use only

### 1.3 Contact Information of the Manufacturer

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

Telephone: +1-661-323-1525  
<http://www.jswaterwell.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. Classification of the Substance or Mixture

#### Classification (GHS-US)

Skin Irrit. 2 H315

Eye Irrit. 2A H319

Full text of H-phrases: see Section 16

### 2.2. Label Elements

GHS-US Labelling

Hazard Pictograms (GHS-US):



Signal Word (GHS-US):

Warning

Hazard Statements:

H315 - Causes skin irritation.

(GHS-US)

H319 - Causes serious eye irritation.

Precautionary Statements:

P234 - Keep in original container.

(GHS-US)

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P302+P352 - If on skin: Wash with plenty of water.

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see Section 4 on this SDS).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362 - Take off contaminated clothing and wash it before reuse.

### 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; 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)
Water	(CAS No) 7732-18-5	Proprietary	Not classified
Proprietary dispersant polymer	Proprietary	Proprietary	Not classified

Note: If Chemical Name/CAS No. is "proprietary" and/or weight percentage is not listed, the specific chemical identity and/or percentage of composition has been withheld as a trade secret in accordance with CFR §1910.1200.

Full text of H-phrases: see Section 16

### 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:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

**First-aid Measures after Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**First-aid Measures after Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures after Ingestion:** Rinse mouth thoroughly with water. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

**Symptoms/Injuries:** May cause eye irritation. Causes skin irritation.

**Symptoms/Injuries after Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries after Skin Contact:** May cause skin irritation.

**Symptoms/Injuries after Eye Contact:** May cause eye irritation.

**Symptoms/Injuries after Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**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.

**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.

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

#### 5.3. Advice for Firefighters Precautionary Measures Fire:

Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Keep upwind. Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: evacuate area. Fight fire remotely due to risk.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Other Information:** Refer to Section 9 for flammability properties.

## SECTION 6: Accidental Release Measures

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

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (mist, spray).

#### 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:** Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

### 6.2 Environmental Precautions

Avoid unnecessary release into the environment. Prevent entry to sewers and public waters.

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

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal.

### 6.4 Reference to Other Sections

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

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

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

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool, and well-ventilated place. Keep container closed when not in use. Keep/store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong acids. Strong bases. Strong oxidizers.

### 7.3 Specific End Use(s)

Solution used to enhance removal of mud and clay; used at a rate of 0.2 to 0.4% of the borehole volume.

## 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).

### 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:** Face shield. Protective goggles. Protective clothing. Gloves. Insufficient ventilation: wear respiratory protection.



<b>Materials for Protective Clothing:</b>	Chemically resistant materials and fabrics.
<b>Hand Protection:</b>	Impermeable protective gloves.
<b>Eye Protection:</b>	Chemical safety goggles.
<b>Skin and Body Protection:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.
<b>Environmental Exposure Controls:</b>	Avoid release to the environment.
<b>Consumer Exposure Controls:</b>	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:	Liquid	Appearance:	Clear, yellow tint
Odor:	No odor	Solubility:	Water (complete)
pH:	7.0	Specific Gravity:	1.27
Boiling point:	120 °C (248 °F)	Freezing point:	0 °C (32 °F) – clouding will occur
Vapor Density:	1.0 (water)	Vapor pressure:	Vapor is water

### 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:** Direct sunlight, extremely high or low temperatures, incompatible materials.
- 10.5 Incompatible Materials:** Strong oxidizers. Strong bases. Strong acids.
- 10.6 Hazardous Decomposition Products:** Carbon oxides (CO, CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects

- Acute Toxicity:** Not Classified.
- LD50 Oral Rat:** >8250 mg/kg
- LC50 Inhalation Rat:** 3.6 mg/l/4h
- Acute Skin Contact:** Dermal LD<sub>50</sub> Rabbits > 3000 mg/kg
- Chronic Skin Contact:** Skin irritation rabbits (Draize score 1.6/8)
- Acute Eye Contact:** Minimal Rabbits (Draize score 2.7/110)
- Skin Corrosion/Irritation:** May cause skin irritation. pH: 7
- Serious Eye Damage/Irritation:** May cause eye irritation. pH: 7
- Respiratory or Skin Sensitization:** Not Classified.
- Germ Cell Mutagenicity:** Not Classified.
- Carcinogenicity:** Not Classified.
- Reproductive Toxicity:** Not Classified.
- Specific Target Organ Toxicity (single exposure):** Not Classified.
- Specific Target Organ Toxicity (repeated exposure):** Not Classified.
- Aspiration Hazard:** Not Classified.
- Symptoms/Injuries after Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries after Skin Contact:** May cause skin irritation.

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

**Symptoms/Injuries after Injection:** Ingestion of undiluted product is likely to be harmful or have adverse effects.

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

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Ecology – General:** This material is not considered hazardous to the aquatic environment. Keep out of sewers and waterways unless diluted.

**Ecology – Water:** This material is not considered hazardous to the aquatic environment. Keep out of sewers and waterways unless diluted.

**LC50 Bluegill, 72H:** > 5000 mg/l

**EC50 Daphnia 1, 48H:** > 2000 mg/l

### 12.2 Persistence and Degradability

**BOD (5) 1.0% solution:** 7950 mg O<sub>2</sub>/L

**BOD (5) 0.1% solution:** 725 mg O<sub>2</sub>/L

**Total Organic Carbon:** 2.2%

**12.3 Bioaccumulation Potential:** Non-bioaccumulating

**12.4 Mobility in Soil:** Undiluted product is slightly viscous and has limited mobility in soils.

**12.5 Other Adverse Effects:** Avoid release of undiluted product into the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods

**Sewage Disposal Recommendations:** Do not dispose of waste into sewer. Do not empty into drains; dispose of this material and its container in a safe way.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international 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

### 14.2 In Accordance with IMDG

Not regulated for transport.

### 14.3 In Accordance with IATA

Not regulated for transport.

### 14.4 In Accordance Canadian TDG

Not regulated for transport.

**Hazard Class:** Non-Hazardous

**Label Codes:** None Required

**Reportable Quantity:** None

## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

**RCRA Status:** Not a hazardous waste under RCRA 40 CFR 261. No reportable quantities.

**SARA/TITLE III-CERCLA List:** This product does not contain a "CERCLA" listed hazardous substance for emergency release notification under Sec. 304 (40CFR 302).

**SARA/TITLE III-Toxic Chemicals List:** This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Sec. 313 (40CFR 372).

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

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

**15.2 US State Regulations:** Neither this product nor its chemical components appear on any US state lists.

**15.3 Canadian WHMIS Classification:** This product does not contain any hazardous materials under CPR and this MSDS discloses all information elements required by the CPR.

**15.4 NSF Standard 60:** Certified for use in potable water well development and rehabilitation.

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

**Date of Issue:** 12/09/1997

**Revision Date:** 01/15/2020 Version: 10.2 (English US)

**HS Tariff Classification Number:** 3402.90.5030 preference criterion A

**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. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
H315	Causes skin irritation
H319	Causes serious eye irritation

**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 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.