



NORTH Metal and Chemical Co.

**1. Company Identification and Product Hazard Overview:**

**Product Name** : NorthQuest 4100

**Synonyms** : Sodium Polyaspartate 40% Liquid

**Recommended Use** : Used as a scale inhibitor and dispersing agent in industrial water treatment programs

**Manufactured for** : NORTH Metal and Chemical Company  
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**In Case of Emergency: Call CHEMTREC (24H): 1-800-424-9300**

**2. Hazard Identification:**

**Classification of the substance or mixture:**

**Classification according to EC regulation 1272/2008 (CLP):**

This mixture is classified as not hazardous.

**Label elements:**

Hazard statements: not applicable

Precautionary statements: not applicable

**Other hazards:**

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

**3. Composition/Information on Ingredient:**

Substance:	CAS Number:	Hazard	Compo. (%)
Sodium Polyaspartate (PASP 40%)	181828-06-8, 35608-40-6	See section 2	38 - 42
Water	-	-	62 - 58

## 4. First Aid Measures:

- General Advice:** : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- Eyes** : Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.
- Skin** : Wash immediately with plenty of water. Change contaminated clothing. In case of skin reactions, consult a physician.
- Ingestion** : Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical assistance. Seek medical attention.
- Inhalation** : Provide fresh air. Seek medical treatment in case of troubles.

**Note to Physician** : Treat symptomatically.

**PPE for first responders** : Gloves and safety goggles are highly recommended.

## 5. Fire Fighting Measures:

### Suitable extinguishing media

**Suitable:** Water spray, foam, dry chemical, or carbon dioxide. Appropriate for the surrounding area.

**Unsuitable:** No information available

### Specific hazards arising from the chemical:

#### UNUSUAL FIRE & EXPLOSION HAZARDS

No unusual fire or explosion hazards noted.

#### SPECIFIC HAZARDS

Not combustible. In the event of a fire, the following may be produced when the water evaporates: Nitrogen oxides (NO<sub>x</sub>), Ammonia, sodium compounds, carbon monoxide and carbon dioxide.

### Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate personnel to safe areas.

#### SPECIAL FIRE FIGHTING PROCEDURES

Move container from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

## 6. Accidental Release Measures:

### Personal precautions, protective equipment and emergency procedures:

Evacuate personnel to safe areas. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing mist/vapors. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

### Environmental precautions:

Keep run off from entering drains or waterways.

### Methods and materials for containment and cleaning up:

Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Absorb spill with inert material such as sand or diatomaceous earth. Collect spillage into properly labelled, closed acid resistant container for disposal.

Special danger of slipping by leaked/spilled product.

### Regulatory Requirements:

Dispose of recovered material in accordance with all applicable local, state and federal regulations.

## 7. Handling and Storage:

### Precautions for safe handling:

Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only! Keep away from sources of ignition. Wash Hands thoroughly after handling product. Wash clothing before reuse and decontaminate

### Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated area. Keep containers tightly closed, and properly labeled. Keep away from incompatible materials and extreme temperatures. Store in accordance with all local, state and federal guidelines.

Keep only in original container.

Empty containers retain vapor and material residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed.

## 8. Exposure Controls and Personal Protection:

### Appropriate engineering controls:

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures:

HMIS PP, B | Safety Glasses, Gloves

- Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR 1910.133 or ANSI Z87.1-2010
- Body protection: Wear acid-resistant protective clothing. Protective gloves (chemically resistant - PVC, natural rubber) according to OSHA Standard - 29 CFR 1910.138.
- Respiratory protection: Not normally required under typical use conditions. If exposure levels are exceeded a respirator must be used. If needed use a MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)
- Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.
- General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

**Exposure Limits:** OSHA (TWA)/PEL): Not Established  
ACGIH (TWA/TLV): Not Established

## 9. Chemical and Physical Properties:

<b>Appearance</b>	: Liquid	<b>Decomposition Temp.</b>	: No data available
<b>Odor</b>	: Characteristic	<b>Evaporation Rate</b>	: Not available
<b>Odor threshold</b>	: Not available	<b>Flammability</b>	: No data available
<b>Color</b>	: Orange/Brown	<b>Upper Explosive Limit</b>	: Not available
<b>pH (1% Soln.)</b>	: 9.0 - 11.0	<b>Vapor Pressure</b>	: No data available
<b>Melting Point</b>	: Not available	<b>Vapor Density</b>	: No data available
<b>Freezing Point</b>	: No data available	<b>Specific Gravity</b>	: 1.20 Min @ 20°C
<b>Boiling Range</b>	: @ 1013 mbar: ~100°C	<b>Solubility</b>	: Miscible in water
<b>Flash Point</b>	: > 110°C		
<b>Viscosity (mPa.s)</b>	: 30 - 60 @ 20°C		

## 10. Stability and Reactivity:

<b>Reactivity:</b>	Harmful and/or toxic vapors may be produced in the event of thermal decomposition.
<b>Chemical Stability:</b>	Product is stable under normal storage and use conditions.
<b>Possibility of Hazardous Reactions:</b>	No data available
<b>Conditions to avoid:</b>	Avoid temperature extremes (especially heat), contact with incompatible materials and uncontrolled contact with accelerants. Protect from freezing.
<b>Incompatible Materials:</b>	No data available
<b>Hazardous Decomposition Products:</b>	In the event of a fire, the following may be produced when the water evaporates: Nitrogen Oxides (NO <sub>x</sub> ), Ammonia, Sodium Compounds, Carbon Monoxide, and Carbon Dioxide.

## 11. Toxicological Information:

### Toxicological (Health) Effects

LD50 Rat, oral: > 2000 mg/kg

LD50 Rat, dermal: > 2000 mg/kg

<b>Acute toxicity (oral):</b>	Classification criteria are not met.
<b>Acute toxicity (dermal):</b>	Classification criteria are not met.
<b>Acute toxicity (inhalation):</b>	Lack of data.
<b>Skin corrosion/irritation:</b>	Classification criteria are not met.
<b>Specific symptoms in animal studies, Rabbit:</b>	Not an irritant.
<b>Eye damage/irritation:</b>	Classification criteria are not met.
<b>Specific symptoms in animal studies, Rabbit:</b>	Not an irritant.
<b>Sensitization to the respiratory tract:</b>	Classification criteria are not met.
<b>Specific symptoms in animal studies, Guinea pig:</b>	Not sensitizing (OECD 406, read across)
<b>Skin sensitization:</b>	Classification criteria are not met.
<b>Specific symptoms in animal studies, Guinea pig:</b>	Not sensitizing (OECD 406, read across)
<b>Germ cell mutagenicity/Genotoxicity:</b>	Classification criteria are not met. Negative in the Ames test.
<b>Carcinogenicity:</b>	Lack of data.
<b>Reproductive toxicity:</b>	Lack of data.
<b>Effects on or via lactation:</b>	Lack of data.
<b>Specific target organ toxicity (single exposure):</b>	Lack of data.
<b>Specific target organ toxicity (repeated exposure):</b>	Lack of data.
<b>Aspiration hazard:</b>	Lack of data.

## 12. Ecological Information:

### Toxicity

**General Notes:** All practices must be aimed at eliminating environmental contamination. Do not allow undiluted product or large quantities to enter ground water or sewage system.

### Acute Toxicity

<b>Fish:</b>	LC50 Brachydanio rerio (zebra-fish): approx. 5620 mg/L/96h LC 0 Brachydanio rerio (zebra-fish): 3160 mg/L/96h
<b>Daphnia:</b>	EC50 Daphnia magna (Big water flea): approx. 3540 mg/L/48h EC 0 Daphnia magna (Big water flea): 2500 mg/L/48h
<b>Algae:</b>	EC50 Scenedesmus subspicatus: 528 mg/L/72h (biomass) EC50 Scenedesmus subspicatus: 1070 mg/L/72h (growth rate)
<b>Bacteria:</b>	EC50 activated sludge: > 15000 mg/L (OECD 209, read across)

### Persistence and Degradability:

**Biodegradation:** Product is readily biodegradable.

5% solution: 74% (OECD 301E, read across)

80% solution: 60% (OECD 301F, read across)

**Anaerobic Degradation:** 30% (56d, ISO 11734, read across)

**Bioaccumulative Potential:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** No data available

## 13. Disposal Considerations:

### Disposal Methods:

Dispose of in accordance with local, state and federal regulations.

This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult all applicable regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinse could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

## 14. Transport Information:

### UN NUMBER:

Land transport ADR/RID and GGVS/GGVE:	Not DOT Regulated
Sea transport IMDG/GGVSee:	Not DOT Regulated
Air Transport ICAO-TI and IATA-DGR:	Not DOT Regulated
Transport/Further information:	None

## 15. Regulatory Information:

**TSCA:** All components of this product are listed (or are not required to be listed) in the TSCA inventory

**CERCLA List:** This product does not contain any CERCLA listed hazardous substances.

**Toxic Chemical List (SARA 313):** This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

**Extremely Hazardous Substance (SARA 302/304):** This product does not contain any extremely hazardous substances subject to emergency planning requirements.

**SARA 312:** Acute Health Hazards.

**RCRA:** No data available

## 16. Other Information:

The information contained in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer/supplier, they are not held responsible for loss, injury, and expense arising out of the product's use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS.

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