



NORTH Metal and Chemical Co.

1. Company Identification and Product Hazard Overview:

Product Name : NorthQuest 4450; Homopolymer of acrylic acid
Synonyms : Polyacrylic acid
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:

GHS Classification:

This product is not hazardous per the Global Harmonized System of Classification and Labelling (GHS).

Other Hazards:

No data available

3. Composition/Information on Ingredient:

Chemical Name : NorthQuest 4450; 2-Propenoic acid, homopolymer, sodium salt
Chemical Family : Acrylic Homopolymer
Chemical Formula : Not applicable

Substance:	CAS Number:	Hazard	Compo. (%)
Polyacrylic Acid	9003-01-4	See section 2	> 45%
Water	7732-18-5		Proprietary

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: Rinse with plenty of water. If eye irritation persists, consult a specialist.

Skin: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Ingestion: Drink 1 to 2 cups of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air.

Note to Physician : Treat symptomatically.

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

5. Fire Fighting Measures:

- Flash Point (°C)** : No data available.
Flammable Limits : Not applicable.
Auto ignition Temp. : Not applicable.
Decomposition Temp. : No data available.
General Hazard : Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.
Extinguishing Media : Water spray, chemical-type foam, dry powder. Appropriate for the surrounding area. **Do not use water jet .**

Hazardous Decomposition Products : Oxides of carbon may be evolved during fires.

Fire Fighting Procedures: This product is a non-flammable substance. However, hazardous decomposition and combustion products such as carbon and sulfur oxides can be formed if product is burning. Material can splatter above 100C/212F. Cool exposed containers with water Spray to prevent over heating. Dry residue of the product may also burn.

Fire Fighting Equipment: Respiratory and eye protection are required for fire fighting personnel. Full protective equipment (bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. Evacuate area and fight fire from safe distance or a protected location. Move fire-exposed containers, if allowable without sacrificing the safety of others and firefighters. If possible without risk, firefighters should control run-off water to prevent environmental contamination.

Sensitivity to Static Discharge : Not sensitive.

Sensitivity to Mechanical Impact : Not sensitive.

6. Accidental Release Measures:

Protective Gear for Personnel:

For Small Spill: Safety glasses or chemical splash goggles, chemically resistant gloves (rubber/latex), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin.

For Large Spill: Triple gloves (rubber and nitrile over latex), chemical resistant suit, boots, hard hat, full face mask/an air purifying respirator (NIOSH approved). Self contained breathing apparatus must be worn in situations where fumigant gas generation and low oxygen levels are a consequence of contamination from the leak.

Spill Clean-up Procedures:

For Small Spill: In the event of a small spill, the leak should be contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Clean the spill area with water. Do not let chemical/waste enter the environment.

For Large Spill: In the event of a large spill, contain the spill immediately and dispose according to state, federal, and local hazardous waste regulation. Do not let chemical/waste enter the environment.

Environmental Precaution:

Water spill: use appropriate containment to avoid run off or release to sewer or other waterways.

Land spill: use appropriate containment to avoid run off or release to ground.

General precaution: remove containers of strong acid and alkali from the release area.

Release Notes: If spill could potentially enter any waterway, including intermittent dry creeks, contact local authorities.

7. Handling and Storage:

Handling: Avoid contact with eyes, skin, and 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. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Wash hands thoroughly with soap and water after use. Remove contaminated clothing and protective equipment before entering eating areas.

Storage: Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep product isolated from incompatible materials/conditions such as freezing temperatures. Empty containers retain vapor and material residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. Do not store with alkalis and oxidizing agents. Keep away from food, drink and animal feeding.

8. Exposure Controls and Personal Protection:

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.

Personal Protective Equipment:

Eyes and face: Wear safety glasses with side shields or goggles when handling this material. OSHA Standard - 29 CFR 1910.133 or ANSI Z87.1-2010

Skin: Avoid direct contact with skin. Wear chemically resistant gloves, apron, boots or whole bodysuit when handling this product. OSHA Standard - 29 CFR 1910.138

Respiratory: Avoid breathing vapor or mist. Use NIOSH approved respiratory protection equipment when airborne exposure is excessive. If used, full face-piece replaces the need for face shield and/or chemical goggles. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. OSHA Standard CFR 1910.134

Work Hygienic Practices : Facilities storing or using this material should be equipped with emergency eyewash, and a safety shower. Good personal hygiene practices should always be followed.

Exposure Limits:

Component:	OSHA STEL	OSHA PEL	ACGIH TLV	ACGIH STEL
Polyacrylic Acid	N/A	N/A	N/A	N/A

9. Chemical and Physical Properties:

Appearance	: Clear to hazy liquid	Decomposition Temp.	: No data available
Odor	: Characteristic	Evaporation Rate	: Not available
Odor threshold	: Not available	Flammability	: Not flammable
Color	: Colorless	Upper Explosive Limit	: Not available
pH (1% Solution)	: 6.0 - 9.0	Vapor Pressure	: 3.2 kPa @ 25°C (Water)
Melting Point	: > -5°C	Vapor Density	: 1.24000
Freezing Point	: < -5°C	Specific Gravity	: 1.260 - 1.360
Boiling Range	: > 100°C	Solubility	: Soluble in water
Flash Point	: Not applicable.		
Viscosity	: 1000 max cps @25°C		

10. Stability and Reactivity:

Stability:	The product is stable under normal ambient conditions of temperature and pressure.
Polymerization:	Polymerization may occur at higher temperatures.
Hazardous Decomposition Products:	Thermal decomposition may yield acrylic monomers and hydrocarbons. Fire/burning of the product may yield toxic fumes of carbon oxides and sulfur oxides.
Incompatible Materials:	Strong alkalis, amines, nitrites, sulfites, reducing agents, oxidizing agents.
Conditions to Avoid:	Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants. Protect from freezing. Keep away from direct sunlight.

11. Toxicological Information:

Acute Toxicity:

Oral LD₅₀ : > 5000 mg/kg (Rat)

Dermal LD₅₀ : > 5000 mg/kg (Rabbit)

Inhalation LD₅₀ : No data available

Corrosion/Irritation:

Skin : Slight Irritation

Eyes : Slight Irritation

Sensitization:

Respiratory : No data available

Skin : Guinea Pig: No Reaction

Carcinogenicity : No data available

Mutagenicity : No data available.

Reproductive Effects : No data available.

Teratogenic Effects : No data available.

Routes of Exposure : Eyes, Skin, Inhalation.

Long Term Exposure Health Effects:

Eyes : No data available.

Skin : No data available.

Inhalation : No data available.

Ingestion : No data available.

12. Ecological Information:

All work practices must be aimed at eliminating environmental contamination.

Biodegradability: No data available.

Bioaccumulative Potential: No data available.

Acute Toxicity to fish

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, 700 mg/l, OECD Test Guideline 203

LC50, Bluegill sunfish (Lepomis macrochirus), 96 Hour, >1.000 mg/l, OECD Test Guideline 203

LC50, Zebra fish (Danio/Brachydanio rerio), 96 Hour, >200 mg/l, OECD Test Guideline 203

Acute toxicity to aquatic invertebrates

EC50, Daphnia magna (Water flea), 48 Hour, >1.000 mg/l, OECD Test Guideline 202

Acute toxicity to algae/aquatic plants

EC50, Algae, 96 Hour, Growth rate, >180 mg/l, OECD Test Guideline 201

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal Considerations:

Disposal Method: Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

For Large Spills: Contain material and call local authorities for emergency assistance.

Product Disposal: Dispose of at a supervised incineration facility or an appropriate waste disposal facility according to current applicable local, state and federal laws, regulations and product characteristics at time of disposal.

Empty Container: Contaminated container should be labeled and disposed in accordance to local, state and federal laws and regulations.

General Comments: Refer to section 6, accidental release measures for additional information.

14. Transport Information:

Regulatory Information	UN No.	Proper Shipping Name	UN Class	Packing Group	Labels
US DOT	None	Not Regulated	None		None
IMDG	None	Not Regulated	None		None
IATA	None	Not Regulated	None		None

15. Regulatory Information:

U.S. Federal Regulations: Not regulated.

TSCA Status: All components of this product are in compliance with TSCA

CERCLA Section 103 (40 CFR 302.4): No components of this products are listed.

Section 311/312 Categorizations (40 CFR 370): Not hazardous

SARA Section 313: No components of this products are listed.

16. Other Information:

HMIS and NFPA Rating Scale:

HMIS: Hazardous Materials Identification System

Numeric Scale for Health (Blue), Flammability (Red), and Physical Hazard (Yellow):

HMIS Rating:*

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible injury.	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary or residual injury	Ignites when moderately heated	Product can become unstable and cause violent chemical reaction at normal pressures and temperatures
3	Can cause serious injury	Ignition occurs at normal temperature	Product capable of forming explosive mixtures and is capable of detonation in presence of strong initiating source.
4	Can be lethal from single or repeated exposure.	Extremely flammable	Product is highly explosive and unstable. Exothermic reactions possible with decomposition, polymerization, reaction with water or self reaction

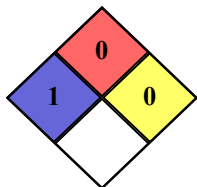
Personal Protection Code B: Gloves + Safety Goggles

16. Other Information:

NFPA: National Fire Protection Association

Numeric Scale for Health (Blue), Fire Hazard (Red), and Reactivity (Yellow):
Special (White)

NFPA Rating:*



RATING	HEALTH	FIRE HAZARD	REACTIVITY
0	Minimal Hazard	Will not burn	Normally Stable
1	Can cause significant irritation	Must be preheated to burn	Unstable at high temperatures
2	Can cause temporary incapacitation or residual injury	Ignites when moderately heated	Normally unstable. Can readily go under violent chemical reaction but do not detonate.
3	Can cause permanent injury.	Ignition occurs at normal temperature	Capable of detonation, or of explosive reaction, but requires a strong ignition source.
4	Can be lethal.	Extremely flammable	May explode at normal temperatures and pressures

Revision Date: June 2, 2022

Reason for Revision: Updated logo and contact information. Formatting. Reviewed for accuracy.

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