



**NORTH Metal and Chemical Co.**

## 1. Company Identification and Product Hazard Overview:

**Product Name** : NorthQuest 3100; Terpolymer of acrylic acid  
**Synonyms** : N/A  
**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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York, PA USA 17405 York, PA USA 17403  
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**In Case of Emergency: Call CHEMTREC (24H): 1-800-424-9300**

## 2. Hazard Identification:

### GHS Classification:

Acute Toxicity, Oral (Category 5)  
Acute Toxicity, Inhalation (Category 5)  
Acute Toxicity, Dermal (Category 2)  
Eye Damage/Irritation (Category 2A)

**Signal Word: WARNING**

**Pictogram: Acute Toxicity**



### Hazard Statements:

**H303** : May be harmful if swallowed  
**H333** : May be harmful if inhaled  
**H315** : Causes skin irritation  
**H319** : Causes serious eye irritation

### Precautionary Statements:

**P264** : Wash contact area thoroughly after handling  
**P362** : Take off contaminated clothing and wash before reuse  
**P280** : Wear protective gloves/protective clothing/eye protection/face protection  
**P303 + P361 + P353** : IF ON SKIN or HAIR: Remove/take off all contaminated clothing. Rinse skin with water  
**P332 + P313** : If skin irritation occurs: Get medical advice/attention  
**P305 + P351 + P338** : IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.  
**P337 + P313** : If eye irritation persists: get medical advice/attention  
**P301 + P330 + P331** : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P304 + P340 + P310** : IF INHALED: Remove person to fresh air and keep in position comfortable for breathing  
**P312** : Call a Poison Center or doctor/physician if feeling unwell.  
**P403 + P235** : Store in a well ventilated area. Keep cool.  
**P273 + P405** : Avoid release into environment. Store locked up.  
**P501** : Dispose of contents/container in accordance with local/state/federal regulations.

### 3. Composition/Information on Ingredients:

**Chemical Name** : NorthQuest 3100, Terpolymer of acrylic acid

**Chemical Family** : Acrylic-based terpolymer

**Chemical Formula** : Not applicable

Substance:	CAS Number:	Hazard	Compo. (%)
Terpolymer of acrylic acid	40623-75-4	Acute Oral Toxicity (Cat. 4)	Proprietary
Water	7732-18-5		Proprietary

### 4. First Aid Measures:

**Inhalation:** If safe to do so, remove individual from further exposure. Keep warm and at rest. If cough or other symptoms develop, call doctor/poison center immediately.

**Skin:** Flush with running water for 15 minutes. If irritation persists, get medical aid.

**Eye Contact:** Flush with running water for at least fifteen minutes. If irritation persists, get medical aid.

**Ingestion:** If the product is swallowed, first rinse mouth with water. Call doctor/physician/poison center immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If person vomits, place them in recovery position so the vomit does not enter the lungs.

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

### 5. Fire Fighting Measures:

**Flash Point (°C):** Above 100 °C/212 °F.

**Flammable Limits :** Not applicable.

**Auto ignition Temp.:** Not applicable.

**Flammable Class:** Not applicable.

**General Hazard:** Evacuate personnel downwind in-order to avoid inhalation of irritating and/or harmful fumes and smoke.

**Extinguishing Media:** Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam.

**Hazardous Combustion Products :** Carbon oxides, sulfur oxides and nitrogen oxides.

**Fire Fighting Procedures :** This product is a non-flammable substance. However, hazardous decomposition and combustion-products such as carbon and sulfur oxides are formed if product is burning. Material can splatter above 100°C/212°F. 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 the firefighters. If possible, 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, 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 with soap after handling product. 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 acids, 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 CFR1910.138

**Respiratory:** Avoid breathing vapor or mist. Use NIOSH approved respiratory protection equipment when air borne 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 Controls:

Component:	OSHA STEL	OSHA PEL	ACGIH TLV	ACGIH STEL
Terpolymer of Acrylic Acid	N/A	N/A	N/A	N/A

## 9. Chemical and Physical Properties:

<b>Appearance</b>	: Clear Liquid	<b>Decomposition Temp.</b>	: Not available
<b>Odor</b>	: Characteristically Polymer	<b>Evaporation Rate</b>	: Not available
<b>Odor threshold</b>	: Not available	<b>Flammability</b>	: Not flammable
<b>Color</b>	: Colorless to pale yellow	<b>Upper Explosive Limit</b>	: Not available
<b>pH (1% Solution)</b>	: 2.0 - 4.0 @ 20°C	<b>Vapor Pressure</b>	: 3.2 kPa@25°C
<b>Melting Point</b>	: Not available	<b>Vapor Density</b>	: Not available
<b>Freezing Point</b>	: < 0°C	<b>Specific Gravity</b>	: 1.150 - 1.250 g/cm <sup>3</sup> @25°C
<b>Boiling Range</b>	: > 100°C	<b>Solubility</b>	: Completely Soluble in water
<b>Flash Point</b>	: > 100°C, 212°F	<b>Partition Coefficient</b>	: Not available
<b>Viscosity</b>	: 750 cps max	<b>Auto Ignition Temp.</b>	: Not available

## 10. Stability and Reactivity:

<b>Stability</b>	: The product is stable under normal ambient conditions of temperature and pressure.
<b>Polymerization</b>	: Polymerization may occur at higher temperatures.
<b>Hazardous Decomposition Products</b>	: Thermal decomposition may yield acrylic monomers and hydrocarbons. Fire/burning of the product may yield toxic fumes of carbon oxides .
<b>Incompatible Materials</b>	: Strong alkalis, amines, nitrites, sulfites, reducing agents, oxidizing agents.
<b>Conditions to Avoid</b>	: Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants. Protect from freezing and temps above 65°C

## 11. Toxicological Information:

**Toxicity Data:** Toxicity studies have not been conducted on this material and no toxicological information was obtained in a comprehensive search of available scientific literature. However data on similar product (Polyacrylic acid—CAS 9003-01-4) are summarized below.

### Acute Toxicity:

Oral LD <sub>50</sub>	: > 5,000 mg/kg (OECD Guideline 401)
Dermal LC <sub>50</sub>	: > 5000 mg/kg (Rabbit) (Values used for a chemically similar product)
Inhalation LD <sub>50</sub>	: No data available

### Corrosion/Irritation:

Skin	: Irritant to the skin and mucous membranes
Eyes	: Irritating to the eyes

### Sensitization:

Respiratory	: No data available.
Skin	: No data available.

**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. Do not allow undiluted product or large quantities to enter ground water or sewage systems. Release of large amounts of this product into aquatic environments may lead to a decrease in pH, which can be harmful to aquatic organisms.

**Biodegradability** : This product is partially biodegradable. Significant residue remains.

**Bioaccumulative Potential** : No data available.

**Terrestrial Ecotoxicity** : This material may be harmful or fatal to contaminated plants or animals, especially if large volumes are released into the environments.

**Aquatic Ecotoxicity** : LC<sub>50</sub> Rainbow trout 96h >1,000 mg/L  
: LC<sub>50</sub> Bluegill sunfish (*Lepomis macrochirus*) 96h >1,000 mg/L

**Aquatic Invertebrates:** :EC<sub>50</sub> Daphnia Magna 48h >1,000 mg/L

**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.

## 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:

TSCA: All components of this product are listed on the TSCA inventory.

CERCLA: Acrylic Acid, RQ—5000 lbs. RCRA Waste Code: U008 (2-propenoic acid)

SARA TITLE III (EPCRA) Section 313: No components of this product are listed.

SARA TITLE III (EPCRA) Section 311/312: Acute Health Hazard

## 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

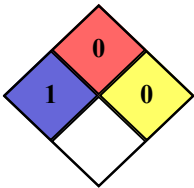
RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible injury.	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary 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 initi-
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

#### NFPA: National Fire Protection Association

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

**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 27, 2023

Reason for Revision: Updated pH Range.

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