



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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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

Pictograms: 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 immediately all contaminated clothing. Rinse skin with water/ shower
P332 + P313 : If skin irritation occurs: Get medical advice/attention.
P305 + P351 + P338 : IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. 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 place. Keep cool.
P273 + P405 : Avoid release to the environment. Store Locked Up.
P501 : Dispose of contents/container in accordance with local/state/federal regulations.

3. Composition/Information on Ingredient:

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:

Eyes : Flush with running water for at least fifteen minutes. If irritation persists, get medical aid.
Skin : Flush with running water for 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 a person vomits, place him/her in recovery position so the vomit does not enter lungs.
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.
PPE for first responders : Gloves and safety goggles are 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.
Flame Propagation or Burning Rate of Solids : Not available.
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, 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 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 Limits:

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:

Appearance	: Clear liquid	Decomposition Temp.	: Not available
Odor	: Characteristic	Evaporation Rate	: Not available
Odor threshold	: Not available	Flammability	: Not flammable
Color	: Clear colorless to pale yellow	Upper Explosive Limit	: Not available
pH (1% solution)	: 2.0 - 3.0 @ 20°C	Vapor Pressure	: 3.2 kPa @ 25 °C (Water)
Melting Point	: Not available	Vapor Density	: Not available
Freezing Point	: < 0 °C	Specific Gravity	: 1.15- 1.250 g/cm ³ @25°C
Boiling Range	: >100 °C	Solubility	: Soluble in water
Flash Point	: >100 °C, 212°F	Partition Coefficient	: Not available
Viscosity	: 100-300 mPas (Dynamic @ 20°C)	Auto Ignition Temp.	: Not available

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:

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 ₅₀	: > 5000 mg/kg (Rat) (Values used for a chemically similar product)
Dermal LC ₅₀	: > 5000 mg/kg (Rabbit) (Values used for a chemically similar product)
Inhalation LD ₅₀	: 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	: Can cause severe irritation to the eyes if exposure if prolonged.
Skin	: Can cause significant irritation if exposure is prolonged.
Inhalation	: Can lead to coughing, nasal congestion, tightness of chest and /or shortness of breath.
Ingestion	: Can lead to possible nausea or vomiting.

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 : LC₅₀ Rainbow trout 96h >1,000 mg/L
:LC₅₀ Bluegill sunfish (*Lepomis macrochirus*) 96h >1,000 mg/L

Aquatic Invertebrates: :EC₅₀ 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 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

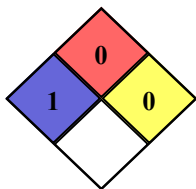
Personal Protection Code B: Gloves + Safety Goggles

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: November 7, 2018

Reason for Revision: Updated Section 3 and 9

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