



NORTH Metal and Chemical Co.

1. Company Identification and Product Hazard Overview:

Product Name : NorthQuest 6000; 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
P. O. Box 1985 609 E. King St.
York, PA USA 17405 York, PA USA 17403
Tel: 717-845-8646 Fax: 717-846-7350
Email: north@nmc-nic.com Website: www.nmc-nic.com

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 5)
Eye Damage/Irritation (Category 2B)

Signal Word: WARNING

Pictograms: Acute Toxicity



Hazard Statements:

H303 : May be harmful if swallowed
H333 : May be harmful is inhaled
H313 : May be harmful in contact with skin
H320 : Causes eye irritation

Precautionary Statements:

P264 : Wash contact area thoroughly after handling
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
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 6000, Terpolymer of acrylic acid
Chemical Family : Acrylic based Terpolymer
Chemical Formula : Not applicable

| Substance: | CAS Number: | Hazard | Compo. (%) |
|----------------------------|--------------|---------------|-------------|
| Terpolymer of Acrylic Acid | Trade Secret | See section 2 | 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) : Not combustible
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.
Special Hazard : Material can splatter above 100°C/212°F. Dried product can burn.
Extinguishing Media : Water spray, chemical-type foam. Appropriate for the surrounding area.
Hazardous Combustion Products : Carbon monoxide, carbon dioxide, sulfur 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. Cool exposed containers with water spray to prevent over heating.
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

: Use appropriate personal protective equipment as specified in Section 8. Handle in a well-ventilated area. 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.

8. Exposure Controls and Personal Protection:

Engineering Controls

: Use appropriate engineering controls to minimize exposure to vapors generated via routine use. Maintain adequate ventilation of workplace and storage areas.

Personal Protective

Equipment

Eyes and face: Wear safety glasses with side shields or goggles when handling this material.

Skin: Avoid direct contact with skin. Wear rubber gloves, apron, boots or whole bodysuit when handling this product.

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.

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.

| Substance: | CAS No.: | OSHA STEL | OSHA PEL | ACGIH TLV | ACGIH STEL |
|----------------------------|--------------|-----------|----------|-----------|------------|
| Terpolymer of Acrylic Acid | Trade Secret | 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 | : Amber color | Upper Explosive Limit | : Not available |
| pH (neat) | : 2.5 - 4.0 | Vapor Pressure | : 3.2 kPa @ 25 °C (Water) |
| Melting Point | : Not available | Vapor Density | : Not available |
| Freezing Point | : < 0 °C | Specific Gravity | : 1.20 ± 0.05 |
| Boiling Range | : >100 °C | Solubility | : Soluble in water |
| Flash Point | : Not available | Partition Coefficient | : Not available |
| Viscosity (cPs) @ 25 °C | : Not available | Auto Ignition Temp. | : Not available |

10. Stability and Reactivity:

| | |
|---|--|
| Stability | : The product is stable under normal ambient conditions of temperature and pressure. Avoid temperatures above 230°C at which polymer decomposition occurs. |
| Polymerization | : Polymerization may occur at higher temperatures. |
| Hazardous Decomposition Products | : Carbon monoxide, carbon dioxide 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. |

11. Toxicological Information:

Acute Toxicity:

| | |
|-----------------------------|------------------------|
| Oral LD ₅₀ | : 5000 mg/kg (Rat) |
| Dermal LD ₅₀ | : >2000 mg/kg (Rabbit) |
| Inhalation LD ₅₀ | : No data available |

Corrosion/Irritation:

| | |
|------|----------------------------------|
| Skin | : No data available |
| Eyes | : Slight eye irritation (Rabbit) |

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, Ingestion

Long Term Exposure Health Effects:

| | |
|------------|---|
| Eyes | : Can cause severe damage 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.

Biodegradability in

Soil/Water : No data available.

Bioaccumulative

Potential : No data available.

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

Aquatic Ecotoxicity (Acute)

Fish Toxicity : Rainbow Trout- LC₅₀ (96h) - >1,100 mg/l

Aquatic Invertebrates: Daphnia magna (Crustacea) EC₅₀ (48h) - 1,040 mg/l

Aquatic Plants : No data available

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:

CERCLA: No components of this product are listed.

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

SARA TITLE III (EPCRA) Section 311/312: No components of this product are listed.

Acute health hazard - No

Chronic health hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

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 | C |

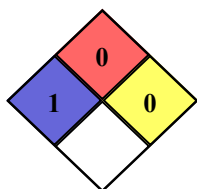
| RATING | HEALTH | FIRE HAZARD | PHYSICAL HAZARD |
|--------|--|---------------------------------------|--|
| 0 | No significant risk to | Will not burn | Product stable under ambient temperature |
| 1 | Can cause irritation or minor reversible injury. | Must be preheated to burn | Product can become 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 C: Gloves + Safety Goggles + Apron

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: February 10, 2015

Reason for Revision: Add necessary data to meet GHS requirements.

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.