



NORTH Metal and Chemical Co.

1. Company Identification and Product Hazard Overview:

Product Name : NorthQuest 2050; Co-polymer of acrylic acid
Synonyms :
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
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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
P262 : Do not get into eyes, on skin, or on clothing.
P272 : Contaminated clothing should not be allowed out of the workplace.
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.
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.
P270 : Do not eat, drink, or smoke when using this product
P370 + P 380 + P375 : In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
P381 : Eliminate all ignition sources if safe to do so.
P360 : Rinse immediately contaminated clothing and skin with plenty of water before removing clothes
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 2050; 2-Propenoic acid, homopolymer,
Chemical Family :
Chemical Formula : Not applicable

Substance:	CAS Number:	Hazard	Compo. (%)
2-Propenoic acid, homopolymer	9003-01-4	See section 2	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 : Flush skin with running water for at least fifteen minutes. Remove any contact lenses. Get medical aid/attention immediately. Continue to rinse eyes during transport to the hospital.

Skin : Remove contaminated clothing. Wash skin with plenty of running water and soap. Take victim immediately to the hospital. Consult a physician.

Ingestion : If the product is swallowed, first rinse mouth. Give small amount of water to drink. 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 breathing has ceased, give artificial respiration. Do not give mouth to mouth resuscitation. Get medical attention/consult a physician immediately.

Note to Physician : Treat symptomatically.

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

5. Fire Fighting Measures:

Flash Point (°C) : >200°F

Flammable Limits : Not flammable

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, carbon dioxide. 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.

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. 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. Keep away from sources of ignition. Do not expose containers to open flame, excessive heat, or direct sunlight. Wash clothing before reuse and decontaminate or discard contaminated shoes.

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. Recommended storage temperature is below 35°C (95°F).

8. Exposure Controls and Personal Protection:

Engineering Controls

: Use appropriate engineering controls to avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.

Personal Protective

Equipment

: **Eyes and face:** Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

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

: **Respiratory:** Avoid breathing vapors or mist. Where risk assessment shows air-purifying respirators are appropriate, use full-face respirator with multi-purpose combination respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH.

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.

Control of Environmental

Exposure

: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

8. Exposure Controls and Personal Protection:

Exposure Limits:

Component:	OSHA STEL	OSHA PEL	ACGIH TLV	ACGIH STEL
Polyacrylic Acid 50% Liquid	N/A	N/A	N/A	N/A

9. Chemical and Physical Properties:

Appearance	: Liquid	Decomposition Temp.	: No data available
Odor	: Acrid	Evaporation Rate	: Not available
Odor threshold	: Not available	Flammability	: Not flammable
Color	: Light yellow to yellow	Upper Explosive Limit	: Not available
pH (1% Soln.)	: 3.50– 4.50	Vapor Pressure	: Not available
Melting Point	: Not available	Vapor Density	: No data available
Freezing Point	: 32°F	Specific Gravity	: 1.15 - 1.25
Boiling Range	: >212 °F	Solubility	: Soluble in water
Flash Point	: >200°F	Molecular Weight	: 3000 - 5000
Viscosity (mPa.s)	: 500 - 1300 cps		

10. Stability and Reactivity:

Stability	: The product is stable under normal ambient conditions of temperature and pressure.
Polymerization	: Polymerization will not occur
Materials to Avoid	: Strong bases (causes chemical oxidation of the drug) Strong oxidizing agents.
Hazardous Decomposition Products	: Combustion will produce carbon dioxide and, possible toxic chemicals such as carbon monoxide. Thermal decomposition may produce carbon oxides and other toxic compounds.
Incompatible Materials	: There are no known materials which are incompatible with this product
Conditions to Avoid	: Avoid extreme temperatures. Protect from freezing.

11. Toxicological Information:

Acute Toxicity:

- Oral LD₅₀ : 2,500 mg/kg (Rat)
- Dermal LD₅₀ : No data available
- Inhalation LD₅₀ : No data available

Corrosion/Irritation:

- Skin : No data available
- Eyes : No data available

Sensitization:

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

Carcinogenicity

- : IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Poly(acrylic acid))
- : ACGIH: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by ACGIH.
- : NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by NTP.
- : OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by OSHA.

Mutagenicity

- : No data available.

Reproductive Effects

- : No data available.

Teratogenic Effects

- : No data available.

Routes of Exposure

- : Skin, Inhalation.

Target Organs

- : Gastrointestinal tract

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 : Minimal respiratory tract irritation may occur with exposure to a large amount of material. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
- Ingestion : Aspiration hazard: Harmful or fatal if swallowed

12. Ecological Information:

All work practices must be aimed at eliminating environmental contamination.

Biodegradability : No data available.

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 : This material may be harmful or fatal to the aquatic environments if large volumes are released.

Aquatic Invertebrates: 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:

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

CERCLA Section 103 (40 CFR 302.4): Potassium hydroxide, 1,000 lbs (50,000 lbs product)

Section 311/312 Categorizations (40 CFR 370): Acute Health Hazards

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

California Prop 65: No components listed.

RCRA hazardous waster no: D002

16. Other Information:

OSHA-PG01: DO NOT REMOVE THIS PRODUCT LABEL (or equivalent wording).

HMIS and NFPA Rating Scale:

HMIS: Hazardous Materials Identification System

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

HMIS Rating:*

HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D

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

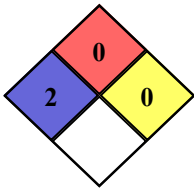
Personal Protection Code D: Face Shield, Safety Goggles, Gloves, & Apron

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: May 5, 2015

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

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