



NORTH Metal and Chemical Co.

1. Company Identification and Product Hazard Overview:

Product Name : NorthQuest 3610; Phosphinocarboxylic acid 50% Solution
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
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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 5)
Eye Damage/Irritation (Category 2B)

Signal Word: WARNING

Pictograms: Acute Toxicity



Hazard Statements:

H303 : May be harmful if swallowed
H333 : May be harmful if 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 3610; Phosphinocarboxylic acid 50% Solution

Chemical Family : Acrylic Polymers

Substance:	CAS Number:	Hazard	Compo. (%)
2-Propenoic acid, polymer with sodium phosphinate	71050-62-9	See section 2	45-55%

4. First Aid Measures:

Eyes : Flush with running water for at least fifteen minutes, periodically lifting upper and lower eyelids. Remove any contact lenses if safe to do so. If irritation persists, get medical aid.

Skin : Flush skin with plenty of running water and soap. Remove contaminated clothing. If irritation persists, get medical aid. Clean and dry contaminated clothing thoroughly before reuse.

Ingestion : If the product is swallowed, drink 1 to 2 glasses of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

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.

Note to Physician : Treat symptomatically.

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

5. Fire Fighting Measures:

Flash Point (°C) : Non-combustible

Flammable Limits : Not applicable

Auto ignition Temp. : Not applicable

Decomposition Temp. : Not available

Flame Propagation or Burning Rate of Solids : No data available.

General Hazard : Evacuate personnel in a manner to avoid inhalation of irritating and/or harmful fumes and smoke.

Extinguishing Media : Carbon Dioxide, extinguishing powder, water spray, or dry chemical. Appropriate for the surrounding area.

Hazardous Combustion

Products : Carbon Oxides, Nitrogen oxides, Sulfur Oxides, Phosphorous Oxides, and other hazardous compounds.

Fire Fighting Procedures: 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 : No data available

Sensitivity to Mechanical Impact : No data available

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. Empty containers retain vapor and material residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed. Store away from oxidizing agents and alkalis.

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. Eye wash facilities and emergency shower must be available when handling this product.

Personal Protective

Equipment

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

Skin: Avoid direct contact with skin. Wear neoprene 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. Never eat, drink, or smoke in work areas.

Exposure Limits:

Substance:	CAS No.:	OSHA STEL	OSHA PEL	ACGIH TLV	ACGIH STEL
2-Propenoic acid, polymer with sodium phosphinate	71050-62-9	N/A	N/A	N/A	N/A

9. Chemical and Physical Properties:

Appearance	: Clear Liquid	Decomposition Temp.	: Not available
Odor	: Not available	Evaporation Rate	: Not available
Odor threshold	: Not available	Flammability	: Not flammable
Color	: Colorless to Pale Yellow	Upper Explosive Limit	: Not available
pH (neat)	: 3.0 - 5.0	Vapor Pressure	: Not available
Melting Point	: Not available	Vapor Density	: No data available
Freezing Point	: < -3 to - 10 °C	Specific Gravity	: 1.20 - 1.30
Boiling Range	: >100 °C	Solubility	: Soluble in water
Flash Point	: Not applicable.		
Viscosity (cPs)	: 200 - 1000 cPs @ 25°C		

10. Stability and Reactivity:

Stability	: The product is stable under normal ambient conditions of temperature and pressure.
Polymerization	: Polymerization will not occur
Hazardous	
Decomposition Products	: Thermal decomposition may yield acrylic monomers and hydrocarbons. Fire may yield toxic fumes of Carbon oxides and phosphorous oxides.
Incompatible Materials	: Strong bases, strong alkalis, strong oxidizing agents, react salts such as nitrites, sulfites, and mild steel.
Conditions to Avoid	: Avoid exposure to extreme temperatures. Protect from freezing.

11. Toxicological Information:

Acute Toxicity Data:

Oral LD ₅₀	: No data available
Dermal LD ₅₀	: No data available
Inhalation LD ₅₀	: No data available

Corrosion/Irritation:

Skin	: No data available
Eyes	: No data available

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	: May cause eye irritation.
Skin	: May cause skin irritation and redness
Inhalation	: May be harmful if inhaled. May cause irritation to respiratory tract.
Ingestion	: May lead to possible nausea or vomiting.

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** : No data available
- 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. This material should be fully characterized for toxicity and possible reactivity prior to disposal (40 CFR 261). Use which results in chemical or physical or combination may be subject to regulation as a hazardous waste.
- 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.

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): No

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

SARA Section 313: 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	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	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
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

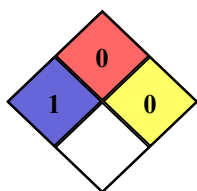
Personal Protection Code B: Gloves + Safety Goggles

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: May 29, 2015

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

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