



North Metal and Chemical Company

**1. Company Identification:**

**Product Name** : NorthQuest 5585 (Mixture of Derivatives of Acrylic Acid copolymer and Phosphonic Acid.)  
**Product Use** : Corrosion Inhibitor in industrial water systems.  
**Manufactured for** : NORTH Metal and Chemical Company  
P.O. Box 1985, 609 E. King St.,  
York, PA, USA 17405  
Tel: 717-845-8646  
Email: north@nmc-nic.com

**In Case of Emergency or Spill Call CHEMTREC (24 Hours): 1-800-424-9300 (USA & CANADA)**

**2. Hazard Identification:****GHS Classification:**

Skin Corrosion (Category 1B)  
Specific Target Organic Toxicity RE (Category 2)  
Eye Damage/Irritation (Category 1)  
Acute Toxicity, Oral (Category 4)

**Signal Word: Danger**

**Pictograms:****Hazard Statements:**

H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H373: May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements:**

P260: Do not breathe vapor/ spray.  
P261: Avoid breathing vapor/ spray.  
P264: Wash contaminated skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P272: Contaminated work clothing must not be allowed out of the workplace.  
P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P301+P310: If swallowed: Immediately call a poison center/ doctor.  
P301+P330+P331: If swallowed: Rinse mouth. Do NOT induce vomiting.  
P302+P352: If on skin: Wash with plenty of water.  
P303+P361+P353: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304+P340: If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314: Get medical advice/ attention if you feel unwell.  
P321: Specific treatment (see medical advice on this label).  
P333+P313: If skin irritation or rash occurs: Get medical advice/ attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P363: Wash contaminated clothing before reuse.  
P405: Store locked up.  
P501: Dispose of contents/ container in accordance with national regulations

### 3. Composition/Information on Ingredient:

**Chemical Name** : Mixture of Derivatives of Acrylic Acid copolymer and Phosphonic Acid

**Chemical Family** : Phosphonates

**Chemical Formula/  
Structure** : Not Available

Substance:	CAS Number	Composition (%)
Phosphonic Acid Derivative	Proprietary	10 - 30%
Acrylic Acid Polymer Derivative	Proprietary	10 - 30%
Phosphorus Acid	10294-56-4	1 - 5%
Phosphonic Acid	7664-38-2	< 1%
Water	7732-18-5	Proprietary

### 4. First Aid Measures:

**Eyes** : Immediately flush with plenty of water for up to 30 minutes. Remove any contact lenses and open eyelids widely. If irritation persists, seek medical attention and bring these instructions.

**Skin** : Immediately remove contaminated clothing. Rinse immediately with plenty of water. Continue to rinse for at least 30 minutes. Get medical attention if irritation persists after washing.

**Ingestion** : Never give anything by mouth to an unconscious person. Do not induce vomiting. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Rinse mouth thoroughly with water

**Inhalation** : Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

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

### 5. Fire Fighting Measures:

**Flash Point (°C)** : Not available.

**Flammable Limits** : Not available.

**General Hazard** : The product is non-combustible. Irritating gases or vapors. This material will not burn until the water has evaporated. Residue can burn.

**Extinguishing Media** : Water spray, foam, dry chemical powder or carbon dioxide. Appropriate for the surrounding area.

**Hazardous Combustion Products** : Fire may cause evolution of corrosive vapors of phosphorous oxides, carbon oxides and nitrogen oxides.

**Fighting Procedures** : Cool exposed containers with water spray to prevent overheating. 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 and others. If possible, firefighters should control run-off water to prevent environmental contamination. Hazardous decomposition and combustion products such as oxides of phosphorous, carbon and nitrogen can be formed if product is burning.

**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 worn for all fires.

**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), chemically resistant boots, and any appropriate body protection to minimize direct contact to the skin. Wear respiratory protection to avoid inhaling vapors.

**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 spill should be absorbed with sand or contained with an absorbent pad and placed in a properly labeled waste disposal container immediately. Do not let chemical/waste enter the environment. Dispose as per instructions in section 13.

**For Large Spill** : In the event of a large spill, contain the spill immediately and dispose the spill/waste 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, alkali and incompatible materials 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 containers isolated from incompatible materials/conditions such as heat and ignition sources. Protect against physical damage and check regularly for leaks.

## 8. Exposure Controls and Personal Protection:

**Engineering Controls** : Use appropriate engineering controls to minimize exposure to vapors/dust 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 face shield when handling this material.  
**Skin:** Avoid direct contact with skin. Wear chemically resistant gloves (rubber), apron, boots or whole chemically resistant bodysuit when handling this product.  
**Respiratory:** Avoid breathing vapor or mist. If risk of overexposure, use NIOSH approved respiratory protection equipment. 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.

### Exposure Limits:

Substance:	CAS No.:	OSHA STEL	OSHA PEL	ACGIH LTEL	ACGIH STEL
Phosphoric Acid	7664-38-2	N/A	N/A	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>

## 9. Chemical and Physical Properties:

<b>Appearance</b>	: Liquid	<b>Evaporation Rate</b>	: Not available.
<b>Odor</b>	: Not available	<b>Lower Explosive Limit</b>	: Not available.
<b>Odor threshold</b>	: Not available	<b>Upper Explosive Limit</b>	: Not available.
<b>Color</b>	: Dark Amber	<b>Vapor Pressure</b>	: Not available.
<b>pH (neat)</b>	: < 2	<b>Vapor Density</b>	: Not available
<b>Melting Point</b>	: Not Available	<b>Specific Gravity</b>	: 1.29 - 1.37@ 20°C
<b>Freezing Point</b>	: Not Available	<b>Solubility</b>	: Miscible in water
<b>Boiling Range</b>	: Not Available	<b>Partition Coefficient</b>	
<b>Flash Point</b>	: Not Available.	<b>n-octanol/water</b>	: Not Available
<b>Viscosity</b>	: max 100 cps @25°C	<b>Auto Ignition Temp.</b>	: Not available.

## 10. Stability and Reactivity:

<b>Stability</b>	: The product is stable under recommended storage and handling conditions.
<b>Hazardous Polymerization</b>	: Polymerization will not occur.
<b>Hazardous Decomposition Products</b>	: Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ). Oxides of the following substances: Phosphorus.
<b>Materials to Avoid</b>	: <b>Bases, amines, metals reducing agents, oxidizing materials.</b> Violent reactions with Alkalis. Incompatible with amines. Corrosive to metals in presence of moisture. Toxic gases released with sulfites and metal salts of sulfides. Fire and explosion hazard in presence of oxidizers.
<b>Conditions to Avoid</b>	: Avoid exposure to extreme temperatures, incompatible materials, flames, sparks and other sources of ignition. Dangerous gases may be formed in confined spaces. May ignite or explode in contact with combustible materials. .

## 11. Toxicological Information:

### Acute Oral Toxicity:

LD<sub>50</sub> Oral - Rat: No Data Available

### Acute Inhalation Toxicity:

LC<sub>50</sub> Inhalation - Rat: No data available

### Acute Dermal Toxicity:

LD<sub>50</sub> Dermal - Rat: No data available.

### Corrosion/Irritation:

**Skin** : Irritant  
**Eyes** : Corrosive

**Carcinogenicity** : No data available.

**Mutagenicity** : No data available.

**Teratogenic Effects** : No data available.

**Sensitization** : No data available

**Reproductive Effects** : No data available.

**Routes of Exposure** : Eyes, Skin, Inhalation, Ingestion

### Potential Health Effects:

**Eyes** : Acute Exposure: Aqueous solutions may cause burning and itching.  
Chronic Exposure: Repeated or prolonged exposure to irritants may cause conjunctivitis.

**Skin** : Acute Exposure: Aqueous solutions may cause burning and itching.  
Chronic Exposure: Repeated or prolonged exposure to irritants may cause dermatitis.

**Inhalation** : Acute Exposure: Aqueous solutions have been reported to be corrosive to all mucous membranes.  
Chronic Exposure: No data available.

**Ingestion** : Acute Exposure: Aqueous solutions have been reported to be corrosive to all mucous membranes.  
Chronic Exposure: Administration of 50, 150, or 500 mg/kg/day for 24 months resulted in reduced body weights and changes in liver, spleen kidney weights or weight ratios in the high dose group.  
The no effect level was considered to be 150 mg/kg/day.

## 12. Ecological Information:

All work practices must be aimed at eliminating environmental contamination.

**Biodegradability in Soil/Water** : Inherently biodegradable

**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 (Hydroxyphosphono Acetic Acid)**  
**Fish Toxicity** : LC<sub>50</sub>, 96 hours: >100 mg/l, Fish  
**Aquatic Invertebrates**: No Data Available  
**Aquatic Plants** : No data available

**Mobility in Soil** : No data available.

**Other Adverse Effects** : No data available.

## 13. Disposal Considerations:

**General Comments** : Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

**Disposal Method**: When handling waste, the safety precautions applying to handling of the product should be considered.

## 14. Transport Information:

Regulatory Information	UN No.	Proper Shipping Name	UN Class	Packing Group	Label
US DOT	3265	Corrosive Liquid, Acidic, Organic, N.O.S. (Hydroxyphosphono-acetic acid)	8	III	Corrosive Sticker
IMDG	3265	Corrosive Liquid, Acidic, Organic, N.O.S. (Hydroxyphosphono-acetic acid)	8	III	Corrosive Sticker
IATA	3265	Corrosive Liquid, Acidic, Organic, N.O.S. (Hydroxyphosphono-acetic acid)	8	III	Corrosive Sticker

## 15. Regulatory Information:

### U.S. FEDERAL REGULATIONS:

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

**CERCLA:** PHOSPHORIC ACID 5,000 lbs (2270 Kg)

**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 - Yes

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	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

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

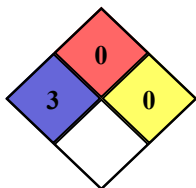
**Personal Protection Code C: Gloves + Safety Goggles + Chemical Apron**

## 16. Other Information:

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

Creation Date: November 27, 2018

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 MSDS.