



North Metal and Chemical Company

## 1. Company Identification and Product Hazard Overview:

**Product Name** : NorthQuest 374; TP TL; Copolymer of Maleic Anhydride  
**Recommended Use** : Scale deposit control and dispersing agent for use 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 (24 Hours): 1-800-424-9300**

## 2. Hazard Identification:

**GHS Classification:**

**Skin Corrosion (Category 3)**

**Eye Damage (Category 2B)**

**Acute Toxicity, Oral (Category 5)**

**Acute Toxicity, Inhalation (Category 5)**

**Signal Word: Warning**

**Pictogram: Acute Toxicity**



**Hazard Statements:**

**H316** : Causes mild irritation.  
**H320** : Causes eye irritation.  
**H303** : May be harmful if swallowed  
**H333** : May be harmful is inhaled

**Precautionary Statements:**

**P280** : Wear protective rubber gloves/apron/goggles with side shields/face protection.  
**P303 + P352 + P363** : IF ON SKIN or hair: rinse skin with water/shower. Wash contaminated clothing before reuse  
**P305 + P351 + P338** : IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P332 + P337 + P313** : If eye or skin irritation persists, get medical 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 374**; TP TL; Copolymer of maleic anhydride and sulfoanted styrene.

**Chemical Family** : Maleic based copolymer.

**Chemical Formula/  
Structure** : N/A

| Substance:  | CAS Number: | Hazard        | Compo. (%)  |
|---|-------------|---------------|-------------|
| Copolymer of maleic anhydride /sulfonated styrene | 68037-40-1  | See section 2 | Proprietary |
| Water   | 7732-18-5   | —             | Proprietary |

### 4. First Aid Measures:

**Eyes** : Flush skin with running water for at least fifteen minutes. Remove any contact lenses. If irritation persists, get medical aid.

**Skin** : Remove contaminated clothing. Flush skin with running water for fifteen minutes. If irritation persists, get medical aid.

**Ingestion** : If the product is swallowed, do not induce vomiting. Call doctor/physician/poison center immediately. 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.

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

### 5. Fire Fighting Measures:

**Flash Point (°C)** : No data available.

**Flammable Limits** : Not applicable.

**Autoignition 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** : Water spray, chemical-type foam, dry chemical. 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. Do not let chemical/spill 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 chemic/spill 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.

## 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 chemically resistant 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.

### Exposure Limits:

| Substance:  | CAS No.:   | OSHA STEL | OSHA PEL | ACGIH TLV | ACGIH STEL |
|---|------------|-----------|----------|-----------|------------|
| Copolymer of maleic anhydride /sulfonated styrene | 68037-40-1 | N/A       | N/A      | N/A       | N/A        |

## 9. Chemical and Physical Properties:

|                                |                  |                              |                    |
|--------------------------------|------------------|------------------------------|--------------------|
| <b>Appearance</b>              | : Liquid         | <b>Decomposition Temp.</b>   | : Not available    |
| <b>Odor</b>                    | : Characteristic | <b>Evaporation Rate</b>      | : Not available    |
| <b>Odor threshold</b>          | : Not available  | <b>Flammability</b>          | : Not available    |
| <b>Color</b>                   | : Amber Liquid   | <b>Upper Explosive Limit</b> | : Not available    |
| <b>pH (neat)</b>               | : 6.5 - 8.0      | <b>Vapor Pressure</b>        | : Not available    |
| <b>Melting Point</b>           | : Not available  | <b>Vapor Density</b>         | : Not available    |
| <b>Freezing Point</b>          | : Not available  | <b>Specific Gravity</b>      | : 1.13 - 1.17      |
| <b>Boiling Range</b>           | : Not available  | <b>Solubility</b>            | : Soluble in water |
| <b>Flash Point</b>             | : Not available  | <b>Partition Coefficient</b> | : Not available    |
| <b>Viscosity (cPs) @ 25 °C</b> | : <100           | <b>Auto Ignition Temp.</b>   | : Not available    |

## 10. Stability and Reactivity:

|   |   |
|---|---|
| <b>Stability</b>                        | : The product is stable under normal ambient conditions of temperature and pressure.                                  |
| <b>Polymerization</b>                   | : Polymerization will not occur.  |
| <b>Hazardous Decomposition Products</b> | : Carbon monoxide, carbon dioxide and sulfur dioxide.   |
| <b>Incompatible Materials</b>           | : Strong oxidizers and reducers.  |
| <b>Conditions to Avoid</b>              | : Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants. |

## 11. Toxicological Information:

### Acute Toxicity Data:

|                             |                     |
|-----------------------------|---------------------|
| Oral LD <sub>50</sub>       | : No data available |
| Dermal LD <sub>50</sub>     | : No data available |
| Inhalation LD <sub>50</sub> | : 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       | : 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.

**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 product may be harmful or fatal to exposed aquatic life in low concentrations.

**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:** Not listed

**SARA TITLE III (EPCRA) Section 302/304:** No components of this product were found to be on the hazardous chemicals list.

**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 | C |

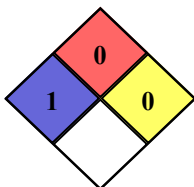
| RATING | HEALTH   | FIRE HAZARD                           | PHYSICAL HAZARD  |
|--------|--|---------------------------------------|--|
| 0      | No significant risk to health                    | Will not burn                         | Product stable under ambient temperature and condition.  |
| 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 + 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: April 21, 2015

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

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