



NORTH Metal and Chemical Co.

### 1. Company Identification and Product Hazard Overview:

**Product Name** : NorthQuest 3540; Maleic Copolymer  
**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  
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**In Case of Emergency: Call CHEMTREC (24H): 1-800-424-9300**

### 2. Hazard Identification:

**GHS Classification:**  
No GHS classification indicated

**Hazard Label:**

None required in accordance with GHS criteria

**Hazard Statements:**  
No specific dangers known

### 3. Composition/Information on Ingredients:

**Chemical Name** : NorthQuest 3540, Maleic Copolymer, [2-Propenoic acid, polymer with 2,5 furandione, sodium salt]  
**Chemical Family** : Copolymer  
**Chemical Formula** : Not applicable

Substance:	CAS Number:	Hazard	Compo. (%)
2-Propenoic acid, polymer with 2,5 furandione, sodium salt	52255-49-9	None	30.0 - 50.0 %
Water	7732-18-5		50 - 80%

### 4. First Aid Measures:

**Inhalation:** In case of accident by inhalation, remove victim to fresh air and keep at rest. If signs/symptoms continue, get medical attention. If person is not breathing, get medical attention immediately, then give artificial respiration. No mouth to mouth respiration.

**Skin Contact:** After contact with skin, take off immediately all contaminated clothing and wash immediately with plenty of soap and water. If irritation develops and persists, get medical attention. Wash contaminated clothing before reuse.

**Eye Contact:** In case of contact with eyes, flush immediately with plenty of water for at least 15 minutes; periodically lifting upper and lower eye lids. Remove contact lenses if worn. Get medical attention if irritation persists.

#### 4. First Aid Measures cont.:

**Ingestion:** If the product is ingested, rinse mouth with large quantities of water and seek immediate medical attention/poison control. Never give anything by mouth to an unconscious person. Do not induce vomiting.

**General Recommendation:** If victim is unconscious, get medical attention immediately. Place the unconscious victim in recovery position and maintain an open airway. Loosen tight clothing.

**Most important symptoms & effects (acute & delayed):** See section 2 and section 11. No other data available.

**Indication of need for immediate medical attention:** No data available

**Special treatment needs:** Treat Symptomatically

#### 5. Fire Fighting Measures:

##### Extinguishing Media:

**Suitable:** Water spray, dry powder or foam. Appropriate for the surrounding area.

**Unsuitable:** No information available

**Hazardous combustion products:** Hazardous decomposition products formed under fire conditions- Carbon oxides (COx) and other hazardous compounds

**Unusual Fire or Explosion Hazards:** Material can splatter above 100C/212F. Cool exposed containers with water spray to prevent over heating. Dry residue of the product may also burn.

**Special protective equipment/precautions:** Wear self-contained breathing apparatus and fully protective suit. Evacuate area and fight fire from a safe distance or a protected location. If possible and without risk, firefighters should control run-off water to prevent environmental contamination.

#### 6. Accidental Release Measures:

**Personal Precautions, Protective equipment, emergency procedures:** Avoid contact with the material. Do not breathe vapors or inhale mist. Provide adequate ventilation. Remove all sources of ignition and incompatible materials.

See section 8 of SDS for PPE recommendations

**Environmental Precautions:** Keep runoff from entering drains or waterways

**Spill/Leak procedures:** Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Absorb spill with inert material such as sand or diatomaceous earth. Place into properly labeled, closed container for disposal.

**Regulatory Requirements:** Dispose of recovered material in accordance with all applicable local, state and federal regulations.

## 7. Handling and Storage:

**Handling Precautions:** Avoid contact with eyes, skin, or clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For industrial use only! Keep away from sources of ignition. Wash Hands thoroughly after handling product. Wash clothing before reuse and decontaminate

**Storage Requirements:** Store in closed containers away from temperature extremes and incompatible materials.

Store in a cool, dry and well ventilated area. Keep containers tightly closed, and properly labeled. Store in accordance with all local, state and federal guidelines Suitable materials for storage: Low density polyethylene (LDPE), glass, high density polyethylene (HDPE)

Store away from oxidizing agents and alkalis.

Protect from temperatures above: 65 C

Empty container retain vapor and product residue. Observe all recommended safety precautions until container is cleaned, reconditioned or destroyed.

## 8. Exposure Controls and Personal Protection:

**Engineering Controls** : Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

### Personal Protective Equipment

: HMIS PP, B | Safety Glasses with side shields, Chemically resistant gloves

Eye protection: Tightly sealed goggles according to OSHA Standard - 29 CFR 1910.133 or ANSI Z87.1-2010

Body protection: Wear protective work clothing. Protective (Chemically resistant) gloves according to OSHA Standard - 29 CFR 1910.138.

Respiratory protection: Not normally required under typical use conditions. If exposure levels are exceeded a respirator must be used. If needed use a MSHA/NIOSH approved respirator. Seek professional advice prior to respirator selection and use. Follow all requirements of OSHA respirator regulations (29 CFR 1910.134)

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132)

### Exposure Limits:

Component:	OSHA STEL	OSHA PEL	ACGIH TLV	ACGIH STEL
Maleic Copolymer	N/A	N/A	N/A	N/A

## 9. Chemical and Physical Properties:

<b>Appearance</b>	: Light Yellow to Yellow Liquid	<b>Decomposition Temp.</b>	: Not available
<b>Odor</b>	: Not available	<b>Evaporation Rate</b>	: Not available
<b>Odor threshold</b>	: Not available	<b>Flammability</b>	: Not flammable
<b>Color</b>	: Pale yellow to Yellow	<b>Upper Explosive Limit</b>	: Not available
<b>pH (neat)</b>	: 7.0 - 9.0 @ 25°C	<b>Vapor Pressure</b>	: Approx. 23 mbar @ 20°C
<b>Melting Point</b>	: > -5°C	<b>Vapor Density</b>	: Not available
<b>Freezing Point</b>	: < -5 °C	<b>Specific Gravity</b>	: 1.3 g/cm <sup>3</sup> (Min.)
<b>Boiling Range</b>	: 100 °C	<b>Solubility</b>	: Completely Soluble in water
<b>Flash Point</b>	: >100 °C	<b>Partition Coefficient</b>	: Not available
<b>Viscosity</b>	: 2,000 mPa.s (Dynamic @ 23°C)	<b>Auto Ignition Temp.</b>	: > 200 °C
<b>Molecular Weight</b>	: 40,000 average		

## 10. Stability and Reactivity:

<b>Stability</b>	: The product is stable under normal ambient conditions of temperature and pressure.
<b>Polymerization</b>	: Will not occur
<b>Hazardous Decomposition Products</b>	: Thermal decomposition may yield acrylic monomers and hydrocarbons. Fire/burning of the product may yield toxic fumes of carbon oxides .
<b>Incompatible Materials</b>	: Strong alkalis, amines, nitrites, sulfites, reducing agents, oxidizing agents.
<b>Conditions to Avoid</b>	: Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants. Protect from freezing and temps above 65°C

## 11. Toxicological Information:

**Toxicity Data:** Toxicity studies have not been conducted on this material and no toxicological information was obtained in a comprehensive search of available scientific literature. However data on similar product (Polyacrylic acid—CAS 9003-01-4) are summarized below.

### Acute Toxicity:

Oral LD <sub>50</sub>	: > 5,000 mg/kg (OECD Guideline 401)
Dermal LC <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** : Ingestion, Inhalation

### Long Term Exposure Health Effects:

Eyes	: No data available
Skin	: No data available
Inhalation	: No data available
Ingestion	: No data available

## 12. Ecological Information:

- Biodegradability** : This product can be virtually eliminated from water by abiotic processes e.g. absorption onto activated sludge
- 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** : LC<sub>50</sub> Leuciscus 96h >100 mg/L
- Aquatic Invertebrates:** :EC<sub>50</sub> Daphnia Magna 48h >500 mg/L
- Mobility in Soil** : Absorption to solid soil is possible.
- 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.
- 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.
- General Comments** : Refer to section 6, accidental release measures for additional information.

## 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 (or not required to be listed) on the TSCA inventory.

**CERCLA:** This product does not contain any CERCLA listed hazardous substances.

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

**SARA TITLE III (EPCRA) Section 311/312:** Not hazardous

## 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 self reaction

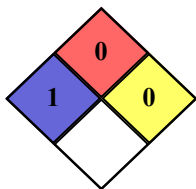
Personal Protection Code B: Gloves + Safety Goggles

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: November 7, 2018

Reason for Revision: Updated full Section 9

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