



North Metal and Chemical Company

1. Company Identification and Product Hazard Overview:

Product Name : NorthQuest 283; Poly(maleic-co-acrylic acid)).
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
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Email: north@nmc-nic.com Website: www.nmc-nic.com

In Case of Emergency Call CHEMTREC (24 Hours): 1-800-424-9300

2. Hazard Identification:

GHS Classification:

Acute Toxicity, Oral (Category 5)
Acute Toxicity, Inhalation (Category 5)
Skin Corrosion (Category 1B)
Eye Damage (Category 1)

Signal Word: DANGER

Pictogram: Corrosive, Acute Toxicity



Hazard Statements:

H314 + H318 : Causes severe skin burns and serious eye damage.
H303 : May be harmful if swallowed
H333 : May be harmful if inhaled

Precautionary Statements:

P280 : Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P353 + P363 : IF ON SKIN OR HAIR: Remove/Take off immediately all contaminated clothing. 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
P304 + P340 + P310 : IF INHALED: Remove person to fresh air and keep in position comfortable for breathing and easy to do. Continue rinsing.
P301 + P330 + P331 : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P309 + P310 : IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.
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 283**; Copolymer of maleic anhydride; poly(acrylic-co-maleic anhydride).

Chemical Family : Maleic based copolymer.

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

Substance:	CAS Number:	Hazard	Compo. (%)
Poly(acrylic-co-maleic acid)	26677-99-6	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) : Above 100 °C.

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. Appropriate for the surrounding area.

**Hazardous Combustion
Products** : **Carbon monoxide and carbon dioxide.**

Fire Fighting Procedures: This product is a non-flammable substance. However, hazardous decomposition and combustion products such as carbon 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. Clean the spill area with water. 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 rubber 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
Poly(acrylic-co-maleic acid)	26099-09-2	N/A	N/A	N/A	N/A

9. Chemical and Physical Properties:

Appearance	: Transparent Liquid	Decomposition Temp.	: Not available
Odor	: Characteristic	Evaporation Rate	: Not available
Odor threshold	: Not available	Flammability	: Not flammable
Color	: Yellow to Amber Liquid	Upper Explosive Limit	: Not available
pH (neat)	: 1.5 - 2.5	Vapor Pressure	: 3.2 kPa @ 25 °C (Water)
Melting Point	: Not available	Vapor Density	: Not available
Freezing Point	: < -5 °C	Specific Gravity	: 1.16 - 1.20
Boiling Range	: >100 °C	Solubility	: Soluble in water
Flash Point	: > 100 °C	Partition Coefficient	: Not available
Viscosity (cPs) @ 25 °C	: No data available.	Auto Ignition Temp.	: Not available

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	: Carbon monoxide and carbon dioxide.
Incompatible Materials	: Strong reducing agents and oxidizing agents.
Conditions to Avoid	: Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants.

11. Toxicological Information:

Acute Toxicity Data:

Oral LD ₅₀	: 10000 mg/kg
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	: Can cause severe damage to the eyes if exposure is 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	Label
US DOT	3265	Corrosive Liquid, Acidic, Organic, N.O.S.	8	III	CORROSIVE
IMDG	3265	Corrosive Liquid, Acidic, Organic, N.O.S.	8	III	CORROSIVE
IATA	3265	Corrosive Liquid, Acidic, Organic, N.O.S.	8	III	CORROSIVE

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.

SARA TITLE III (EPCRA) Section 313: Not regulated

OSHA: Not listed

California Prop. 65: Not listed

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	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

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

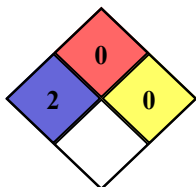
Personal Protection Code C: Gloves + Safety Goggles + Apron

NFPA: National Fire Protection Association

Numeric Scale for Health (Blue), Fire Hazard (Red), and Reactivity (Yellow):

Special (White): None

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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