



North Metal and Chemical Company

1. Company Identification and Product Hazard Overview:

Product Name : NorthQuest 544 (NQ5000 Dry)
Recommended Use : Scale inhibitor and dispersant for use in industrial water treatment.
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 (24 Hours): 1-800-424-9300

2. Hazard Identification:

GHS Classification:

Skin Corrosion (Category 2)

Serious Eye Damage (Category 2A)

Acute Toxicity, Oral (Category 5)

Acute Toxicity, Inhalation (Category 5)

Signal Word: Warning

Pictogram: Acute Toxicity



Hazard Statements:

H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H303 : May be harmful if swallowed
H333 : May be harmful is inhaled

Precautionary Statements:

P264 : Wash all affected body parts thoroughly after handling.
P261 : Avoid breathing dust/mist/vapors/spray
P272 : Contaminated work clothing should not be allowed out of the work place.
P280 : Wear protective rubber gloves/apron/goggles with side shields/face protection.
P302 + P352 + P361 : IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing
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
P363 : Wash contaminated clothing before reuse
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 544
Chemical Family : Acrylic copolymer(s)
**Chemical Formula/
Structure** : N/A

Substance:	CAS Number:	Hazard	Compo. (%)
Acrylic Copolymers		See section 2	>90%

4. First Aid Measures:

Eyes : Flush eyes 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 and soap for fifteen minutes. If irritation persists, get medical aid.

Ingestion : If the product is swallowed, rinse mouth with large quantities of water. 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, carbon dioxide, or dry chemical. Appropriate for the surrounding area.

**Unsuitable Extinguishing
Media** : High power water jet as it can potentially create an explosive airborne dust mixture

**Hazardous Combustion
Products** : Carbon Oxides, Sulfur Oxides, and other hazardous compounds.

**Unusual Fire or
Explosion Hazards** : Dust at sufficient concentration can form explosive mixtures with air. 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 the firefighters. If possible, firefighters should control run-off water to prevent environmental contamination.

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 swept or scooped and placed in a properly labeled waste disposal container immediately. Do not let chemical/spill waste enter the environment. For unrecoverable material, use small amounts of water to wet the material. Absorb wet material with sand or diatomaceous earth and place into a properly labeled, closed waste container.
- 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/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** : Avoid contact with eyes, skin or clothing. . 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. Do not inhale dust. Avoid formation of dust mixtures with air.
For industrial is only.
Keep away from sources of ignition.

- Storage** : Store in a cool, dry well-ventilated area. Keep containers closed when not in use. Keep only in original container. Keep product isolated from incompatible materials: sulfite and nitrite bases.

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

- : **Eyes and face:** Wear tightly-sealed 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 dust. 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
Acrylic Copolymers		N/A	N/A	N/A	N/A

9. Chemical and Physical Properties:

Appearance	: White Powder	Decomposition Temp.	: Not available
Odor	: Not available	Evaporation Rate	: Not available
Odor threshold	: Not available	Flammability	: Not applicable
Color	: White	Upper Explosive Limit	: Not available
pH (neat)	: 5.5 - 7.0 (1% water solution)	Vapor Pressure	: Not available
Melting Point	: Not available	Vapor Density	: Not available
Freezing Point	: Not available	Specific Gravity	: Not available
Boiling Point	: Not available	Solubility	: Soluble in water
Flash Point	: Not available	Partition Coefficient	: Not available
Viscosity	: Not available	Auto Ignition Temp.	: Not available

10. Stability and Reactivity:

Stability	: The product is stable under normal ambient conditions of temperature and pressure.
Polymerization	: No data available.
Hazardous Decomposition Products	: Thermal decomposition may yield maleic monomers and hydrocarbons. In the event of fires, oxides of carbon, oxides of sulfur, and other toxic compounds may be released.
Incompatible Materials	: Strong oxidizing agents, sulfites, nitrites, and bases
Conditions to Avoid	: Avoid exposure to extreme temperatures. Protect from freezing. Avoid all sparks, flames, heat sources, and sources of ignition.

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	: Irritating
Eyes	: Irritating

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.
Skin	: Can cause skin irritation and redness.
Inhalation	: Can cause irritation of the respiratory tract.
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. 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.

Empty Container : Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state, and local 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	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	E

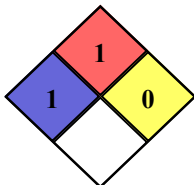
RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible injury.	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary 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 E: Gloves + Safety Goggles + Dust Respirator

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: May 29, 2015

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

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