



NORTH Metal and Chemical Co.

1. Company Identification and Product Hazard Overview:

Product Name : NorthQuest 5420; Acrylic Copolymer Powder
Synonyms : N/A
Recommended Use : Used as a scale inhibitor and dispersing agent in industrial water treatment and detergent 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:
Eye Damage/Irritation (Category 2)
Skin Corrosion/Irritation (Category 3)

Signal Word: WARNING
Pictograms: None

Hazard Statement (s):
H313 : May be harmful in contact with skin
H316 : Causes mild skin irritation
H320 : Causes eye irritation

Prevention:
P280 : Wear protective gloves, protective clothing such as apron, boots, and safety glasses with side shields.
P264 : Wash all affected body parts thoroughly after handling.

Response:
P332 + P313 : IF SKIN irritation occurs: Get medical advice/attention from a physician.
P305 + P351 + P338 : IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 : If eye irritation persists: Get medical advice/attention

Emergency Overview: 5420 is a fine white polymer powder that yields a gel like material with the addition of water. It causes extremely slipper conditions when wet. Although not regulated as a hazardous material, the respirable dust is potential respiratory tract irritant.

Potential Health Effects:

Eyes: Dust may cause burning, drying, itching and other discomfort, resulting in reddening of the eyes.
Skin: Exposure to the dust, such as in manufacturing, may aggravate existing skin conditions due to the drying effect.
Inhalation: Exposure to the respirable dust may cause respiratory tract and lung irritation and may aggravate existing respiratory conditions.
Ingestion: May be harmful if swallowed. Do not swallow.

3. Composition/Information on Ingredient:

Chemical Name : NorthQuest 5420: Poly(acrylic-co-sulfonic), sodium salt

Chemical Family : Acrylic based Copolymer

Chemical Formula : Not applicable

Substance:	Hazard	Composition (%)
Acrylic Copolymer (Dry Powder)	See section 2	94.0 min

4. First Aid Measures:

Eyes : Flush with running water for at least fifteen minutes, periodically lifting upper and lower eyelids. Remove any contact lenses if safe to do so. If irritation persists, get medical aid.

Skin : Flush skin with plenty of running water and soap. Remove contaminated clothing. If irritation persists, get medical aid. Clean and dry contaminated clothing thoroughly before reuse.

Ingestion : If the product is swallowed, rinse mouth with water and call doctor/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 established

Auto ignition Temp. : Not applicable.

Decomposition Temp. : No data available.

Flame Propagation or Burning Rate of Solids : Not available.

General Hazard : Evacuate personnel in-order to avoid inhalation of irritating and/or harmful fumes and smoke. Dust at sufficient concentrations can form explosive mixtures with air. 5420 can cause extremely slippery conditions when wet.

Extinguishing Media : Dry chemical, foam, carbon dioxide, and water fog. Do not use a solid stream of water.

Hazardous Decomposition Products : Oxides of carbon (COx) & sulfur (SOx) may be evolved during fires.

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 fires. Evacuate area and fight fire from safe distance or a protected location. Move fire-exposed containers, if allowable without sacrificing the safety of others and firefighters. If possible without risk, firefighters should control run-off water to prevent environmental contamination.

Sensitivity to Static Discharge : No data available.

Sensitivity to Mechanical Impact : No data available.

6. Accidental Release Measures:

Protective Gear for Personnel:

For Small Spill : Safety glasses or chemical splash goggles, respirator, chemically resistant gloves, 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 Hazard(s) : **AVOID INHALATION OF DUST DURING CLEAN UP. ENSURE ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR. EXTREMELY SLIPPERY CONDITIONS ARISE WHEN THIS PRODUCT IS IN CONTACT WITH WATER.**

Spill Clean-up : In the event of a spill, material should be swept or shoveled (if possible) and placed in a properly labeled waste disposal container immediately. Pick up and arrange disposal without creating dust. Dispose waste according to state, federal and local regulations.

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 the product in a well-ventilated area. Handle in a manner consistent with good industrial/manufacturing techniques and practices. Avoid contact with skin and eyes. Avoid dust formation. 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 such as freezing temperatures.

Recommended Storage Temperature: 1.0 °C - 49.0 °C

8. Exposure Controls and Personal Protection:

Engineering Controls : Use appropriate engineering controls to minimize exposure to vapors or 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 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 dust. Use respirators and components tested and approved under appropriate government standards such as NIOSH or CEN. Wear respirator with a high efficiency filter such as N95/N100 (US) if particulate concentration in the work area exceeds 0.05 mg/m³ over an eight hour period. If the respirator is the sole means of protection, use a full-face supplied air respirator.

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 : No data available.

9. Chemical and Physical Properties:

Appearance	: Fine Powder	Decomposition Temp.	: No data available
Odor	: Characteristic	Evaporation Rate	: No data available
Odor threshold	: Not available	Flammability	: No data available
Color	: White to off-white	Upper Explosive Limit	: No data available
pH (neat)	: 3.0—6.0	Vapor Pressure	: No data available
Melting Point	: Not available	Vapor Density	: No data available
Freezing Point	: No data available	Specific Gravity	: No data available
Boiling Range	: Not applicable	Solubility	: No data available
Flash Point	: No data available	Partition Coefficient	: No data available
Viscosity (cPs) @ 25 °C	: No data available	Auto Ignition Temp.	: No data available

10. Stability and Reactivity:

Stability	: The product is stable under normal ambient conditions of temperature and pressure.
Polymerization	: Will not occur.
Hazardous Decomposition Products	: Thermal decomposition may yield acrylic monomers. Fire may yield toxic fumes of CO _x & SO _x
Incompatible Materials	: Strong oxidizing agents.
Conditions to Avoid	: Avoid exposure to extreme temperatures, contact with incompatible chemicals, uncontrolled contact with accelerants.

11. Toxicological Information:

Acute Toxicity:

Oral LD ₅₀	: > 5000 mg/kg (Rat) Similar Product
Dermal LD ₅₀	: > 2000 mg/kg (Rat) Similar Product
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.

Chronic Toxicity : No data available

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 material may be harmful or fatal to the aquatic environments if large volumes are released.

Aquatic Invertebrates: No data available.

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.

General Comments : Refer to section 6, accidental release measures for additional information.

14. Transport Information:

Regulatory Information	In-	UN No.	Proper Shipping Name	UN Class	Packing Group	Labels
US DOT		None	Not Regulated	None	-	None

15. Regulatory Information:

U.S. Federal Regulations:

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

CERCLA Section 103 (40 CFR 302.4): No components of this products are listed.

Section 311/312 Categorizations (40 CFR 370): Chronic Health Hazard.

SARA Section 313: No components of this products are 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	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

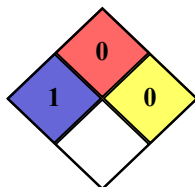
RATING	HEALTH	FIRE HAZARD	PHYSICAL HAZARD
0	No significant risk to health	Will not burn	Product stable under ambient temperature and condition.
1	Can cause irritation or minor reversible	Must be preheated to burn	Product can become unstable at high temperatures and pressures.
2	Can cause temporary or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

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: September 19, 2017

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

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