



North Metal and Chemical Company

## 1. Company Identification:

**Product Name** : North HMDTMPA-K6  
**Synonyms** : NorthQuest 6254  
**Product Use** : Scale inhibitor and dispersing agent for use in industrial water treatment programs.  
**Chemical Name** : Potassium Salt of HexaMethyleneDiamineTetra (MethylenePhosphonic Acid), (HMDTMPA-K6)  
**Manufactured for** : **North Metal and Chemical Company**  
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**In Case of Emergency Call CHEMTREC (24 Hours): 1-800-424-9300 (USA & CANADA)**

## 2. Hazard Identification:

### GHS Classification:

Causes Eye Irritation (Category 2B)

Causes Skin Irritation (Category 2B)

**Signal Word:** Warning

**Pictograms:**



### HAZARD STATEMENTS:

**H319:** May cause eye irritation.  
**H335:** May cause skin irritation

### PRECAUTIONARY STATEMENTS:

#### Prevention:

**P264:** Wash all affected body parts thoroughly after handling.  
**P270:** Do not eat, drink, or smoke when using this product.  
**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

#### Response:

**P301 + P330 + P331:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P303 + P361 + P353:** IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower.  
**P304 + P340:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
**P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P406:** Store in a corrosive resistant container with a resistant inner liner.  
**P501:** Dispose of contents/container in accordance with all applicable laws and regulations.

### 3. Composition/Information on Ingredient:

**Chemical Name** : Potassium Salt of HexaMethyleneDiamineTetra (MethylenePhosphonic Acid)  
**Chemical Family** : Phosphonates  
**Chemical Formula** : No Data Available  
**CAS Number** : 53473-28-2

Substance:	CAS Number:	Compo. (%)
Potassium Salt of HexaMethyleneDiamineTetra (MethylenePhosphonic Acid)	53473-28-2	31.0 - 36.0
Water	7732-18-5	Proprietary

### 4. First Aid Measures:

**General Advice:** Contact a Poison Control Center or a doctor if symptoms develop.

**Inhalation:** Remove individual from further exposure. Seek medical attention if effects persists.

**Skin contact:** Flush skin with plenty of running water. Remove contaminated clothing. Get medical attention if irritation occurs

**Eye contact:** Flush with running water for at least fifteen minutes, periodically lifting upper and lower eyelids. Remove any contact lenses if safe to do so. Get medical attention immediately.

**Ingestion:** If the product is swallowed, rinse mouth with large quantities of water and call doctor/poison center immediately. Drink plenty of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

### Treat Systematically

### 5. Fire Fighting Measures:

**General Hazard:** Not combustible.

**Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

### Specific Hazards arising from the substance or mixture:

Decomposition Products include: Carbon Monoxide, carbon dioxide, phosphorous oxides

### Special protective equipment and precautions for fire-fighters:

Decomposes on heating emitting toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

### 6. Accidental Release Measures:

#### Emergency procedures/Environmental precautions:

If contamination of sewers or waterways has occurred advise local emergency services.

#### Personal precautions/Protective equipment/Methods and materials for containment and cleaning up:

Slippery when spilt. Avoid accidents, clean up immediately. Contain/prevent run off from entering drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

## 7. Handling and Storage:

### Precautions for safe handling:

Avoid skin and eye contact and breathing in vapor, mists and aerosols.

### Conditions for safe storage, including any incompatibilities:

Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Do not store in metal containers. Keep containers closed when not in use - check regularly for leaks

## 8. Exposure Controls and Personal Protection:

**Control Parameters:** No value assigned for this specific material.

### Appropriate engineering controls:

Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

### Individual protection measures, such as Personal Protective Equipment (PPE):

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Wear safety glasses and impervious gloves.

Always wash hands before smoking, eating, drinking or using the toilet.

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting standard requirements.

## 9. Chemical and Physical Properties:

<b>Appearance</b>	: Colorless to yellowish liquid	<b>Vapor Pressure</b>	: No Data Available
<b>Odor</b>	: Characteristic	<b>Vapor Density</b>	: No Data Available
<b>Odor threshold</b>	: Not applicable	<b>Specific Gravity</b>	: 1.210 - 1.310 @ 20°C
<b>Color</b>	: Brown	<b>Solubility</b>	: Fully Miscible in water
<b>pH Value (1% Solution)</b>	: 6 - 8 @ 25°C	<b>Partition Coefficient</b>	: No Data Available
<b>Melting Point</b>	: No Data Available	<b>Viscosity (Kinematic)</b>	: No Data Available
<b>Freezing Point</b>	: No data available	<b>Decomposition Temp.</b>	: No Data Available
<b>Boiling Range</b>	: No Data Available		
<b>Flash Point</b>	: No Data Available		

## 10. Stability and Reactivity:

**Chemical stability:** Stable under normal temperatures and pressures

**Possibility of hazardous reactions:** Hazardous polymerization will not occur.

**Conditions to avoid:** Avoid exposure to extreme temperatures and pressures

**Incompatible materials:** Incompatible with strong oxidizing agents, strong acid solutions, strong alkalis, and cation surface-active agents. Avoid extended exposure to metal.

**Hazardous decomposition products:** Oxides of carbon, oxides of nitrogen, oxides of phosphorus and phosphine.

## 11. Toxicological Information:

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** No adverse effects expected, however, large amounts may cause nausea and vomiting.

**Eye contact:** May be an eye irritant.

**Skin contact:** Contact with skin may result in irritation.

**Inhalation:** Breathing in mists or aerosols may produce respiratory irritation.

### Acute toxicity:

Oral LD50 (rat): >5000 mg/kg

Dermal LD50 (rabbit): >5000 mg/kg

**Skin corrosion/irritation:** Non-irritant (rabbit).

**Serious eye damage/irritation:** Non-irritant (rabbit).

**Chronic effects:** No evidence of reproductive effects. No evidence of mutagenic properties

## 12. Ecological Information:

**Ecotoxicity:** Avoid contaminating waterways.

**48hr EC50 (Daphnia magna):** 265 mg/L

**48hr LC50 (rainbow trout):** >3440 mg/L

**72hr EC50 (algae):** >140 mg/L (Selenastrum capricornutum)

## 13. Disposal Considerations:

### Disposal methods:

Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not dump any amount into sewer or waterways.

## 14. Transport Information:

Regulatory Information	UN No.	Proper Shipping Name	UN Class	Packing Group	Label
US DOT	N/A	Not DOT Regulated	-	-	-
IMDG	N/A	Not Classified/Non Dangerous	-	-	-

## 15. Regulatory Information:

### U.S. Federal Regulations:

**TSCA Status:** All components of this product are in compliance with TSCA

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

**Section 311/312 Categorizations (40 CFR 370):** Non-Hazardous Material

**SARA Section 313:** No components of this products are listed.

## 16. Other Information:

Creation Date: October 27, 2023

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