



North Metal and Chemical Company

### 1. Company Identification:

**Product Name** : North PAPEMP  
**Synonyms** : NorthQuest 6300  
**Product Use** : Scale and corrosion inhibitor intermediate  
**Chemical Name** : Polyamino Polyether Methylene Phosphonic Acid  
**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:**  
Metal Corrosion (Category 1)  
Skin Corrosion (Category 1B)  
Aquatic Chronic (Category 3)

**Signal Word: Warning**

**Pictograms:**



#### HAZARD STATEMENTS:

**H290:** May be corrosive to metals  
**H314:** Causes severe skin burns and eye damage  
**H402:** Harmful to aquatic life with long lasting effects

#### PRECAUTIONARY STATEMENTS:

**P234:** Keep only in original packaging  
**P260:** Do not breathe dust/fumes/gas/mist/vapors/spray  
**P281:** Wear protective gloves/protective clothing/eye protection/face protection.  
**P301 + P330+ P331:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
**P302 + P361 + P353:** IF ON SKIN (or HAIR): 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.  
**P310:** Immediately call as POISON CENTER/doctor.  
**P501:** Dispose of contents/container in accordance with all applicable laws and regulations.

#### OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION:

Harmful effects on water organisms by modification of pH value.

### 3. Composition/Information on Ingredient:

**Chemical Name** : Polyamino Polyether Methylene Phosphonic Acid  
**Chemical Family** : Phosphonates  
**Chemical Formula** : No Data Available  
**CAS Number** : 130668-24-5

Substance:	CAS Number:	Hazard	Compo. (%)
Polyamino Polyether Methylene Phosphonic Acid	130668-24-5	N/A	38-42%
Phosphoric Acid	7664-38-2	N/A	0-1%
Phosphonic Acid	13598-36-2	N/A	0-3%
Hydrochloric Acid	7647-01-0	Corrosive	0-5%
Water	7732-18-5	N/A	BALANCE %

### 4. First Aid Measures:

**General Advice:** Do not get in eyes, on skin, or on clothing. Do not breathe mist/vapors. In the case of skin irritation or allergic reactions see a physician. In case of accident or sickness, seek medical advice immediately (show directions for use or safety data sheet if possible). First aider - pay attention to self-protection.

**Inhalation:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties, administer oxygen. Get medical advice/attention if you feel unwell.

**Skin contact:** Wash off immediately with plenty of water while removing all contaminated clothes and shoes. Seek medical attention immediately. Wash contaminated clothing before reuse.

**Eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek immediate medical attention.

**Ingestion:** Rinse mouth. Do not induce vomiting, get medical attention. Never give anything by mouth to an unconscious person.

### Most important symptoms/effects, acute and delayed

**In case of inhalation:** Burns

**In case of ingestion:** Burns, gastrointestinal complaints When swallowed and vomited immediately, aspiration into the lungs may occur resulting in chemical pneumonia or suffocation.

**After contact with skin:** corrosive

**After contact with eyes:** corrosive

**TREAT SYSTEMATICALLY**

### 5. Fire Fighting Measures:

#### Suitable extinguishing media

Water fog, foam, extinguishing powder, carbon dioxide.

#### NOT SUITABLE EXTINGUISHING MEDIA:

High power water jet.

#### Specific hazards arising from the chemical:

**Hazardous combustion products:** Hazardous decomposition products & dangerous vapors formed under fire conditions- Carbon oxides (COx), phosphorous oxides (POx), nitrogen oxides (NOx), phosphine & other hazardous compounds

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

#### Special protective actions for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out. Evacuate personnel to safe areas.

## 6. Accidental Release Measures:

### Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Keep away from heat, sparks, flame and other sources of ignition. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Avoid breathing mist/vapors. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

### Environmental precautions

Keep run off from entering drains or waterways.

### Methods and materials for containment and cleaning up

#### Small Spill:

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. Use soda or another alkaline detergent for removal of residues (may generate heat). Wash spill area with plenty of water. Prevent cleaning water from entering sewers or waterways. Place into properly labelled, closed acid resistant container for disposal.

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

## 7. Handling and Storage:

### Precautions for safe handling

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. Wear protective equipment. Wash Hands thoroughly after handling product. Wash clothing before reuse and decontaminate.

### Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area. Keep containers tightly closed, and properly labeled. Keep away from incompatible materials and extreme temperatures. Store in accordance with all local, state and federal guidelines.

Keep only in original container.

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

## 8. Exposure Controls and Personal Protection:

**Control Parameters:** Occupational

Exposure Limits:

CAS No.	Designation	Type	Limit Value
	Hydrochloric Acid	Europe: IOELV-STEL	15 mg/m <sub>3</sub> ; 10 ppm (Hydrogen Chloride)
		Europe: IOELV-TWA	8 mg/m <sub>3</sub> ; 5 ppm (Hydrogen Chloride)
		Great Britain: WEL-STEL	8 mg/m <sub>3</sub> ; 5 ppm (gas and aerosol mists)
		Great Britain: WEL-TWA	2 mg/m <sub>3</sub> ; 1 ppm (gas and aerosol mists)
		Ireland : 15 minutes	15 mg/m <sub>3</sub> ; 10 ppm IOELV
		Ireland: 8 hours	8 mg/m <sub>3</sub> ; 5 ppm IOELV
7664-38-2	Phosphoric Acid	Europe: IOELV-STEL	2 mg/m <sub>3</sub>
		Europe: IOELV-TWA	1 mg/m <sub>3</sub>
		Great Britain: WEL-STEL	2 mg/m <sub>3</sub>
		Great Britain: WEL-TWA	1 mg/m <sub>3</sub>
		Ireland: 15 minutes	2 mg/m <sub>3</sub>
		Ireland: 8 hours	1 mg/m <sub>3</sub>

## 8. Exposure Controls and Personal Protection Continued:

### Appropriate 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.

### Individual protection measures

#### Personal protection equipment Occupational exposure controls

**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)

**Hand protection:** Protective gloves according to EN 374.

Glove material: Polypropylene, polyethylene, PVC.

Breakthrough time: > 480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

**Eye protection:** Tightly sealed goggles according to EN 166.

**Body protection:** Wear suitable protective clothing.

**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)

## 9. Chemical and Physical Properties:

<b>Appearance</b>	: Clear Liquid	<b>Upper Explosive Limit</b>	: No Data Available
<b>Odor</b>	: N/A	<b>Vapor Pressure</b>	: No Data Available
<b>Odor threshold</b>	: Not applicable	<b>Vapor Density</b>	: No Data Available
<b>Color</b>	: Yellow to brown	<b>Specific Gravity</b>	: 1.15 - 1.25 @ 20°C
<b>pH</b>	: 1.5 - 2.5 @ 20°C	<b>Solubility</b>	: Fully Miscible in water
<b>Melting Point</b>	: No Data Available	<b>Partition Coefficient</b>	
<b>Freezing Point</b>	: No Data Available	<b>n-octanol/water</b>	: No Data Available
<b>Boiling Range</b>	: No Data Available	<b>Auto Ignition Temp.</b>	: No Data Available
<b>Flash Point</b>	: No Data Available	<b>Molecular Weight</b>	: No Data Available
<b>Ignition Temp.</b>	: No Data Available	<b>Viscosity (Kinematic)</b>	: No Data Available
<b>Lower Explosive Limit</b>	: No Data Available		

## 10. Stability and Reactivity:

### Reactivity

Corrosive to metals (aluminum, steels).

### Chemical stability

Product is stable under normal storage and use conditions.

### Possibility of hazardous reactions

No data available.

### Conditions to avoid

Avoid temperature extremes, contact with incompatible materials/chemicals and uncontrolled contact with accelerants. Protect from freezing

### Incompatible materials

Strong oxidizing agents, alkalis, caustic substances.

### Hazardous decomposition products

Hazardous decomposition products & dangerous vapors formed under fire conditions- Carbon oxides (COx), phosphorous oxides (POx), nitrogen oxides (NOx), phosphine & other hazardous compounds

## 11. Toxicological Information:

### Toxicological (health) effects

Toxicological effects:

The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral):

Lack of data.

Acute toxicity (dermal):

Lack of data.

Acute toxicity (inhalative):

Lack of data.

Skin corrosion/irritation, eye damage/irritation:

Skin Corrosion 1B

Sensitisation to the respiratory tract:

Lack of data.

Skin sensitisation:

Lack of data.

Germ cell mutagenicity/Genotoxicity:

Lack of data.

Carcinogenicity:

Lack of data.

Reproductive toxicity:

Lack of data.

Effects on or via lactation:

Lack of data.

Specific target organ toxicity (single exposure):

Lack of data.

Specific target organ toxicity (repeated exposure):

Lack of data.

Aspiration hazard:

Lack of data.

### Symptoms related to the physical, chemical and toxicological characteristics

**In case of inhalation:**

Burns

**In case of ingestion:**

Burns, gastrointestinal complaints

When swallowed and vomited immediately, aspiration into the lungs may occur resulting in chemical pneumonia or suffocation.

**After contact with skin:** corrosive

**After contact with eyes:** corrosive

## 12. Ecological Information:

### Toxicity

**General Notes:** All practices must be aimed at eliminating environmental contamination. Do not allow undiluted product or large quantities to enter ground water or sewage systems.

Harmful effects on water organisms by modification of pH-value.

### Persistence and degradability

Biodegradability - Product is not readily biodegradable.

### Bioaccumulative potential

No data available.

### Mobility in soil

No data available.

### Other adverse effects

No data available.

### 13. Disposal Considerations:

#### Disposal Method

Dispose of in accordance with local, state and federal 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 change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult all applicable regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinse could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

### 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. (Phosphonic Acids)	8	II	N/A

### 15. Regulatory Information:

#### Safety, health and environmental regulations specific for the product in question:

**TSCA:** All components of this product are listed (or are not required to be listed) in the TSCA inventory

#### EPA / CERCLA / SARA TITLE III:

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

**Toxic Chemical List (SARA 313):** This product does not contain any chemicals subject to routine annual toxic chemical release reporting.

**Extremely Hazardous Substance (SARA 302/304):** This product does not contain any extremely hazardous substances subject to emergency planning requirements.

**SARA 312:** Acute Health Hazards.

**RCRA:** No data available

### 16. Other Information:

**Revision Date:** March 12, 2018

**Reasons for Revision:** Added additional information to Section 3.

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