



# NORTH METAL & CHEMICAL COMPANY

World Class Molybdenum & Tungsten Compounds

Since 1921

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Phosphonates

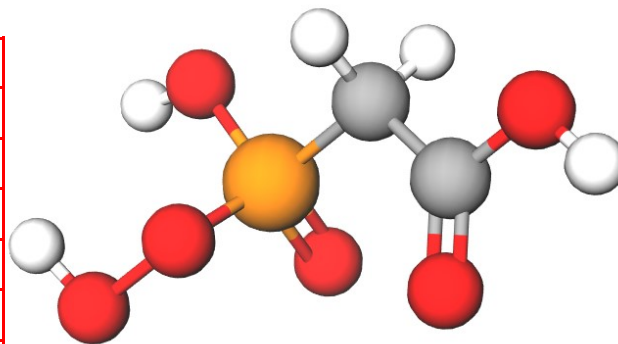
## Technical Data Sheet

### NorthQuest 575 - Stabilized HPAAs

**NorthQuest 575 (Stabilized HPAAs)**, is a commonly used organic corrosion and scale inhibitor for mild steel in industrial water systems. It functions by forming a thin film with calcium at the cathodic site to prevent oxygen from reaching the metal surface. A stabilizing agent is formulated into the product in order to perform in the presence of oxidizing agents (i.e. chlorine). The stabilized formulation is ideally suited for more demanding higher temperature and pH environments. CAS# 23783-26-8

#### Technical Specifications: C<sub>2</sub>H<sub>3</sub>O<sub>6</sub>P

|                                     |                      |
|-------------------------------------|----------------------|
| Appearance                          | Brown Viscous Liquid |
| Solids Content, %                   | 50% min              |
| pH (1% solution)                    | 1.0 - 3.0            |
| Specific Gravity @ 25°C             | 1.300 - 1.500        |
| Freezing Point, °C                  | -5°C                 |
| Phosphonate, %                      | 30% min              |
| Phosphoric Acid, as PO <sub>4</sub> | 2% max               |
| Phosphorous Acid, % PO <sub>3</sub> | 3% max               |
| Color, Gardner                      | 20 max               |



**Packaging:** Available in 551lb drums and 2755lb totes. Small packs available by request.

**Storage:** Store in a cool, dry area. Keep containers closed when not in use.

**Shelf Life:** At least three years if properly stored in unopened container.

**Safety:** HPAAs are corrosive to the skin and eyes. Refer to MSDS for additional precautions.



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