

## AQUACID 1067EX

## Na<sub>7</sub> DETMP

### DIETHYLENETRIAMINE PENTA(METHYLENEPHOSPHONIC ACID), HEPTA SODIUM SALT

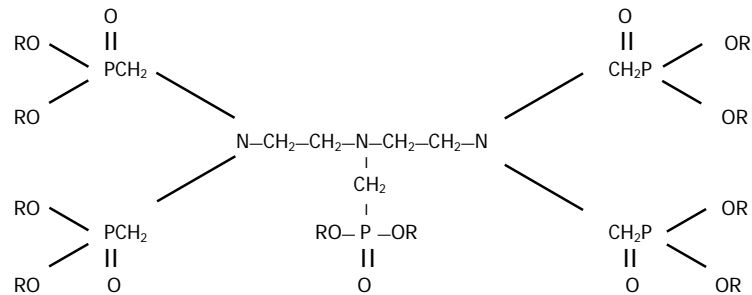
**REACH REGISTRATION  
NUMBER**

01-2119514449-36-0003

**PRODUCT FEATURES**

Aquacid 1067EX is an organophosphorous compound exhibiting excellent sequestration of metal ions at stoichiometric concentration and threshold inhibition of metal salt precipitation at sub-stoichiometric concentrations. The ability of Aquacid 1067EX to disperse or de-flocculate solid particles combined with its hydrolytic and temperature stability makes it a versatile ingredient for applications requiring efficient metal ion control such as textile processing, pulp and paper manufacturing, detergents, I&I formulations and water treatment.

**STRUCTURE**



Where, R = 7 Na and 3 H.

**SPECIFICATIONS**

Chemical Name	: Diethylenetriamine penta(methylenephosphonic acid), hepta sodium salt
CAS No	: 22042-96-2
EC No	: 244-751-4
Molecular Weight	: 727
Appearance	: Clear amber coloured aqueous solution
Active Content	: 24 – 26% min (as acid) : 31 – 33 % (as salt)
Specific gravity @ 25°C	: 1.28 to 1.32
pH (1% solution)	: 6 – 8
Chlorides as HCl	: < 5 %
Iron Content (ppm)	: < 20
Solubility	: Soluble in water
(These are typical values and not specifications)	

**MAJOR APPLICATIONS**

**Textile Processing / Textile Auxiliaries:** Aquacid 1067EX is applied in textile processing during scouring, bleaching etc. Aquacid 1067EX chelates iron and other heavy metals that catalyse bleach decomposition. This property stabilizes bleach, prevents staining due to iron deposits and prevents pin holes during bleaching caused by embedded copper or iron deposits.

**Pulp and Paper Mills:** This product is recommended for similar applications in paper mills where removal of heavy metals like Fe and Mn improves bleachability of pulp, reduces bleach consumption and improves brightness reversion control of the finished paper.

**Detergents:** Addition of Aquacid 1067EX to detergent formulations containing percarbonate or perborate ensures controlled release of the bleach during the washing process. Its strong scale control property also reduces incrustation on fabric and washing machines.

**I & I Cleaners:** Aquacid 1067EX is recommended for I&I formulations that require chelation of hardness and heavy metal ions such as vehicle wash, hard surface cleaners.

**Desalination antiscalants:** Aquacid 1067EX is an excellent inhibitor of carbonate and sulphate scales of Ca as well as Sr. This coupled with its excellent iron chelation properties makes it a suitable ingredient for antiscalants treating water with high sulphate scale potential and with high Fe<sup>+++</sup> content.

**HANDLING PRECAUTIONS**

Care should be taken to avoid contact of the product with skin and eyes. Goggles & rubber gloves should be used at all times while handling the product. Please refer MSDS for detailed information.

**PACKING**

65 kg HDPE carboys, 275 kg barrels, 1250 kg IBCs and 26000 kg ISO tanks.