

Reg. No: 00358
Issue: 1
Doc. Date: 01.06.2007
English Version



NOBLAZE

THPC – Urea

四羟甲基氯化磷脲缩体

GENERAL

| | |
|--------------------|--|
| Chemical Name | Tetrakis (hydroxymethyl) phosphonium chloride urea precondensate |
| Chemical Structure | $[(\text{CH}_2\text{OH})_4\text{P}] \text{Cl} \cdot \text{CH}_2\text{N}_4$ |
| Appearance | Colourless to light yellow clear liquid |
| CAS No. | 27104-30-9 |

DESCRIPTION

THPC-Urea is used as a flame retardant for textiles and wool.

SPECIFICATIONS

| <u>Properties</u> | <u>Typical Value</u> |
|-------------------------------------|----------------------|
| Active Content (as phosphorus), % | 10 Min |
| PH | 4.0 – 5.5 |
| Density, g/cm ³ at 25 °C | 1.35 – 1.42 |
| Colour (APHA) | 100 Max |

Our THPC-Urea is available in 60 - 65 % solution.

PACKING

250kg per UN approved PE drum

APPLICATION

THPC-Urea is a highly effective flame retardant for cotton fabric. For cotton fabric treatment, THPC-Urea can be diluted with water to the desired concentration. The optimal chemical dosage is 50% for 10,000 meter of and its usage procedures as the following:

PROCEDURES

1. Rinse and complete wetted the wool with water.
2. Prepare a tank of fresh water and add 50% of THPC-Urea based on weight of water.
3. After that add in nonionic penetrate chemicals, polyethylene oxide ether compounds and organosilicon softener.

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4. Soak the wool into the mixture for 10-15 minutes.
5. Later proceed to ammonia steam process for 10-15 minutes and this process is to ensure that the flame-retardant bind tightly with the wool.(Ammonia: Water :10:60).
6. Last step wash the wool with detergent and rinse it with hot water at temperature 90-95°C, to get rid of residual of ammonia.

TRANSPORT INFORMATION

NA

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The above information is, to the best of our knowledge, true and accurate, but any recommendations or suggestions which may be made are without guarantee, since the conditions of use are beyond our control.

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