

# Yoke Chemicals and New Materials (Shanghai) Co., Ltd.

and its subsidiaries Shekoy Chemicals Europe and USA

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## Technical Data Sheet

### *PhireGuard TCPP*

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#### General Description and Use

PhireGuard TCPP is a chlorinated phosphate ester commonly used in both rigid polyurethane foams (PUR and PIR) and in flexible polyurethane foams.

PhireGuard TCPP, sometimes referred to as TMCP, is an additive flame retardant that can be added to either side of a two component urethane / isocyanurate package to achieve long term stability.

In rigid foam applications, PhireGuard TCPP is widely used in flame retardant packages to help formulators pass fire safety codes such as the DIN 4102 (B1/B2), EN 13823 (SBI, B), GB/T 8626-88 (B1/B2), ASTM E84-00.

In flexible foam applications, PhireGuard TCPP is particularly suited to pass the BS 5852 crib 5, in combination with melamine.

#### Typical Properties<sup>1)</sup>

Physical appearance	transparent liquid
Phosphorus content, wt%	9.4
Chlorine content, wt%	32.5
Specific gravity @20°C	1.29
Viscosity @ 25°C, cPs	65
Acid value, mgKOH/g	≤ 0.1
Water content, wt%	≤ 0.07
Odour	mild, characteristic

1) Please refer to the Certificate of Analysis for exact properties

## Safety Information

Yoke Chemicals and New Materials (Shanghai) Co., Ltd. is committed to the health and safety of its customers and employees.

Avoid breathing vapour and mist. In case of direct contact with eyes or skin, rinse immediately with plenty of water and seek medical advice. In case of ingestion, rinse mouth with water and seek medical advice.

In any case wear suitable protective clothing and do consult the material safety data sheet of this product prior to utilization.

## Handling and Shipping Information

Product is available in isocontainers (max. 25 t), totes (1250 l) and drums (250 l / 55 US gal).

Product must be stored in dry, cool area away from direct sun exposure and kept away from humidity and water contamination. Handle in accordance with good professional hygiene and safety procedures. Use in well ventilated areas.

In case of spillage, use a shovel or any other appropriate tool to collect the spill and place it into a chemical waste container. Do prevent spill from entering water supplies or water courses.

## Contacts

May you require any further information regarding this product or any other product commercialized by the Jiangsu Yoke Technology Corporation, please do contact one of our following facilities at your best convenience:

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