



1. Characteristics

- * TOYOCAT-TR20 is a quaternary ammonium salt catalyst, which improves rise profile and dimension stability in producing isocyanurate foams.
- * In isocyanurate formulation, TOYOCAT-TR20 exhibits a flameproof improvement and decreasing the smoke concentration because of having the ability to trimerize isocyanate group.
- * TOYOCAT-TR20 can also be used for rigid foam to improve curing function.

2. Typical Properties

Appearance	brownish clear liquid
Specific Gravity D_{20}^{20}	1.01
Water Content (%)	< 1.0
Solubility in Water	soluble
Freezing Point ()	< -20
Flash Point () [C.O.C]	103
Viscosity (mPa s)(at 20)	300
Calculated OH number (mgKOH/g)	752

3. Toxicity

Oral (rat) LD ₅₀	2000 mg/kg
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4. Handling and Storing

This product has a low vapor pressure and toxicity, however handling in well ventilated area is recommended.

When this product comes into direct contact with the eyes or skin, inflammation will occur. Wearing protective gear or applying protective cream is most effective when handling. In the event that contact is made with the eyes or skin, wash immediately with large amount of water. If the eyes are affected, seek medical attention after washing. This product may turn slightly darker when stored over long periods of time. However, catalytic activity will not be affected.

5 Shipping information

Net weight

Packaging	kg	1b
Drum (200L)	190	418
(20L)	19	41

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