

Amine Catalysts for Polyurethane Foam

TOYOCAT-SPF Series

The TOYOCAT-SPF series of acid blocked delayed-action catalyst systems are designed specifically for HR polyurethane foam production.

1. Characteristics

- * TOYOCAT-SPF, SPF2 are excellent delayed-action catalyst systems which exhibit favorable chemical activity, flow and moldability.
- * In HR foam formulations, they produce identical properties to TEDA-L33 along with improved flow and cure.
- * TOYOCAT-SPF and SPF2 are recommended for flexible hot, semi-hot molded, rigid and elastomer polyurethane products.

2. Typical Properties

	SPF	SPF2
Appearance	Amber liquid	Amber liquid
Specific Gravity D ₂₀ ²⁰	1.02	1.08
Water Content (%)	< 1.5	< 1.5
Solubility in Water		
Freezing Point ()	< -10	< -20
Flash Point ()	94(C.O.C.)	77(T.C.C.)
Viscosity (mPa s) [25]	53	61
Calculated OH number (mgKOH/g)	592	988

3. Toxicity

Oral (rat) LD ₅₀ (mg/kg) 1940	√ (ma/ka)	1940	1943
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4. Handling and Storing

These products have low vapor pressure and toxicity, however handling in well ventilated area is recommended.

When these products come 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. These products may turn slightly darker when stored over long periods of time. However, catalytic activity will not be affected.

5 Shipping information

Net weight

SPF	SPF2
180kg (396 1b	220 (440)
17(37)	20(44)

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