UNPCHEMICALS

EXTREME PRESSURE ANTI-WEAR AGENTS

PSAIL® SERIES

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***PSAIL*® 3741** is an amine phosphate salt-based EP/Anti-wear additive with antioxidant effects. Typically formulated with sulfur additives, it is extensively applied in metalworking fluids.

CHEMICAL COMPOSITION

Amine-neutralized butyl phosphate ester CAS No.: 98679-19-7

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Yellow transparent liquid	Visual inspection
Density at 20℃, g/cm^3	0.96	GB/T 1884
Viscosity at 40℃, mm^2/s	1900.0	GB/T 265
Flash point open cup, ℃	⩾130.0	GB/T 3536
Phosphorus content, %	7.4	SH/T 0296
Nitrogen content, %	3.2	NB/SH/T 0656

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Compatible with sulfur additives for wide application in metalworking fluids
- Provides extreme-pressure (EP) and anti-wear performance with secondary antioxidant properties

APPLICATION

- Metalworking fluids for medium to harsh machining
- Honing oil
- Grinding oils
- Broaching oil
- Deep-hole drilling oils

USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended dosage: 0.2-1.5%

RELATIVE PRODUCTS

- RC 3741

PACKAGING AND STORAGE

Packaging	50kg plastic drum or 180kg steel drum (Net weight)
Storage conditions	Store in a cool, dry, well-ventilated warehouse

HANDLING INFORMATION

Avoid contact with skin, eyes and clothing. Operate in accordance with good industrial health and safety practices. Please refer to material safety data sheet (MSDS) for additional handling information on *PSAIL®3741*.

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