

PSAIL® 2320 is a thiophosphate structure. It is a liquid ashless extreme pressure and anti-wear agent with good solubility, hydrolysis stability, and excellent extreme pressure and anti-wear performance. It is non-corrosive to copper and ferrous metals, and is widely used in metalworking fluids, engine oils, industrial oils, greases, and other fields.

CHEMICAL COMPOSITION

Liquid triphenyl thiophosphate CAS No.: 192268-65-8

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Colorless to light yellow clear liquid	Visual inspection
Density at 20°C, g/cm³	1.15	GB/T 1884-2000
Acid number, mgKOH/g	≤0.1	GB/T 264-1983
Flash point closed cup, °C	≥110	ASTM D93
Sulfur content, %	7.80	GB/T 17040-2019
Phosphorus content, %	7.50	NB/SH/T 0296-1992
Copper corrosion at 100°C, 3h	1b	GB/T 5096-2017

Note: The above analytical data are not specifications.

PERFORMANCE CHARACTERISTICS

- Easy to handle liquid
- Offers excellent solubility in mineral oils, PAOs and esters
- Not corrosive towards copper and ferrous metals

APPLICATION

- Metalworking fluids
- Engine oils
- Air compressor oils, hydraulic oils
- Grease

USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended treat level:

Engine oil, industrial oil, grease: 0.5-2.0%

RELATIVE PRODUCTS

- IRGALUBE 232

PACKAGING AND STORAGE

Packaging	50kg plastic drum or 230kg 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®2320**.

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