

**PSAIL® 3012** is an environmentally friendly, ashless and multi-functional additive of phosphite ester type, which has both antioxidant and extreme pressure anti-wear properties. It has excellent thermal stability and can maintain stability over a wide temperature range. Its molecular structure is stable, free of phenolic components, and complies with international environmental protection regulations (such as REACH). It is widely used in lubricating oil products to extend the service life of oil products, as well as in the field of polymer materials (polyolefins, PVC).

## CHEMICAL COMPOSITION

Dilauryl hydrogen phosphite

CAS No.: 21302-09-0

## TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Colorless transparent liquid	Visual inspection
Density at 20℃, g/cm <sup>3</sup>	0.90	GB/T 1884-2000
Viscosity at 40℃, mm <sup>2</sup> /s	12.70	GB/T 265-1988
Flash point open cup, °C	> 170	GB/T 3536-2008
Acid number, mgKOH/g	5.7	GB/T 264-1983
Phosphorus content, %	7.3	SH/T 0296-1992

*Note: The above analytical data are not specifications.*

## PERFORMANCE CHARACTERISTICS

- Environmentally friendly, free of phenolic compounds
- High efficiency ashless anti-wear agent, medium and heavy load extreme pressure agent  
Excellent effect if used as corrosion inhibitor in greases
- Also has antioxidant properties

## APPLICATION

- Industrial oil and metalworking oil
- Grease

## USAGE METHOD

- Added to the formulation directly and compatibility needs to be tested before adding
- Recommended treat level: 1.0-10.0 %

## RELATIVE PRODUCTS

- JP-212

## PACKAGING AND STORAGE

<b>Packaging</b>	50kg plastic drum or 180kg steel drum (Net weight)
<b>Storage conditions</b>	Store in originally sealed package in a cool, dry, well-ventilated warehouse, storage temperature should be below 50℃

## 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®3012**.

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