

EXTREME PRESSURE ANTI-WEAR AGENTS

PSAIL® SERIES

Luoyang Pacific United Petrochemical Co., Ltd.

UNPChemicals

No. 113, Huayang Avenue, Baihe Town,

Mengjin District, Luoyang City

Henan Province, China

+86-379-67877555 sales@unpchemicals.com

www.unpchemicals.com

PSAIL® 3018 is a multifunctional dialkyl phosphite additive with an oleyl alcohol-based structure that combines antioxidant, antiwear, and stabilizing properties. The distinctive oleyl chain in its molecular structure provides excellent oil solubility and processing characteristics, while the phosphorus content delivers effective extreme pressure and antiwear protection. This phenol-free additive meets environmental compliance standards and finds wide application in lubricating oils, metalworking fluids, and polymer materials (including polyolefins, PVC, and unsaturated polyesters).

CHEMICAL COMPOSITION

Dioleyl hydrogen phosphite CAS No.: 64051-29-2

TYPICAL PROPERTIES

Test Item	Typical Data	Method
Appearance	Light-yellow transparent liquid	Visual inspection
Density at 20℃, g/cm³	0.91	GB/T 1884-2000
Viscosity at 40°C, mm²/s	22.88	GB/T 265-1988
Flash point open cup, ℃	>150	GB/T 3536-2008
Acid number, mgKOH/g	2.7	GB/T 264-1983
Phosphorus content, %	5.3	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, high-temperature and heavy-load extreme pressure agent
- Excellent extreme pressure and lubrication performance

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

DOVERPHOS 253, JP-218-OR

PACKAGING AND STORAGE

Packaging	50kg plastic drum or 180kg steel drum (Net weight)	
Storage conditions	Store in a cool, dry and 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*®3018.

Luoyang Pacific United Petrochemical Co., Ltd. (UNPChemicals) hopes that the information provided will be helpful to you. The information provided in this document has been prepared by technicians and is true and accurate as of the date of this document. However, please note that the conditions of your use and application of our products, technical assistance and information (whether orally, in writing or through product evaluation), including any suggested formulations and recommendations, are outside our control. UNPChemicals makes no representations, warranties or warranties (whether express, implied, statutory or otherwise), or implied warranties as to the completeness, accuracy or timeliness of any information. It is therefore important that you test our products, technical assistance and information, including how they are packaged, to determine their performance, efficacy and safety. You are solely responsible for the performance, efficacy and safety of any products you produce. UNPChemicals assumes no liability and you bear all risks and liabilities for any use or handling of any material. Nothing in this document should be interpreted as suggesting the use of any product that conflicts with the patent covering any material or its use. No license is implied or granted under the claims of any patent. We will provide consistent quality products within our sales conditions.