

FUNCTIONAL CI-428

LIGHT-COLOR ANTI-WEAR ADDITIVE / CORROSION INHIBITOR for FOOD-GRADE LUBRICANTS

APPLICATION:

FUNCTIONAL CI-428 is a colorless, oil-soluble, anti-wear additive and corrosion inhibitor for use in industrial lubricants. It is soluble in synthetic esters, vegetable oils, white oils, and polyalphaolefins.

COMPOSITION:

FUNCTIONAL CI-428 is an amine salt of an alkyl phosphate, NSF approved (HX-1, HX-2) for lubricants with incidental food contact.

Typical Properties	
Appearance	Colorless to slight yellow liquid
Odor	Mild amine
Specific Gravity	0.94
Lbs per Gallon	7.7
ASTM D974 Total Acid Number	134
ASTM D92 Flash Point	>80°C (176°F)
ASTM D445 Kinematic Viscosity	61 cSt at 40°C
pH	8.0 - 9.5
Phosphorus, %	3.0 – 5.0
Antiwear performance at 0.5 wt% in Canola Oil	
ASTM D4172 @ 40 kgf, mm / CoF	0.43 / 0.0860

TREATMENT LEVEL:

FUNCTIONAL CI-428 is permitted in food-grade lubricants at levels up to 0.5%. A starting level of 0.2% is recommended for normal protection (ASTM D665A) and 0.2%-0.5% for salt water protection (ASTM D665B). **FUNCTIONAL CI-428** may be used with antioxidants, viscosity improvers or other additives customarily used in these applications.

HANDLING:

FUNCTIONAL CI-428 may cause skin and eye irritation and should be handled with suitable personal protection. Fumes resulting from heating of the concentrated form may be an inhalation irritant. See the Safety Data Sheet.



Nonfood Compounds
Program Listed
Category Codes: HX-1 and HX-2
Registration No. 170835

This Technical Data Sheet and the Safety Data Sheet contain information believed to be accurate and reliable. No warranty is made, however, to information beyond the control of FUNCTIONAL PRODUCTS INC. The engineering and management personnel of the user are responsible for determining the suitability of this or any product for any specific application, and this information is offered to them for that purpose.

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