

FUNCTIONAL CI-426

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

APPLICATION:

FUNCTIONAL CI-426 is an oil-soluble anti-wear additive and corrosion inhibitor that may be used in lubricants and hydraulic fluids with incidental food contact. It is completely soluble in white oils, polyalphaolefins and other suitable base oils.

COMPOSITION:

FUNCTIONAL CI-426 is an amine salt of an alkyl phosphate, approved by the U.S. Department of Agriculture as an ingredient in lubricants with incidental food contact under paragraph 21CFR 178.3570.

Typical Properties	
Appearance	yellow liquid
Odor	mild amine
Specific Gravity	0.92
Lbs per Gallon	7.7
Flash Point	105°C (220°F)
Kinematic Viscosity	800 cSt at 40°C
pH	8.5 - 9.5 (in 99% isopropanol, 1% water)
phosphorus	6.5 %
solubility in oil	soluble
solubility in water	insoluble

TREATMENT LEVEL:

FUNCTIONAL CI-426 is permitted in food-grade lubricants at levels up to 0.5%, as needed to accomplish its purposes of corrosion inhibition and anti wear. If only rust protection is needed a starting level of 250 ppm is recommended for normal protection (ASTM D665A) and 700 ppm for salt protection (ASTM D665B). It may be used with antioxidants, viscosity improvers or other additives customarily used in these applications.

HANDLING:

In its concentrated form **FUNCTIONAL CI-426** is a skin and eye irritant, and should be handled with suitable personal protection. The concentrated form should not be heated unnecessarily, as heating could release fumes of the amine, which could be an inhalation irritant. See the material safety data sheet. The oils made with **FUNCTIONAL CI-426** are not hazardous and may be handled with the usual precautions for similar oils.



Nonfood Compounds
Program Listed
Category Codes: HX-1 and HX-2
Registration No. 120910

This Technical Data Sheet and the Material 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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