

### FUNCTIONAL CI-427

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

#### APPLICATION:

**FUNCTIONAL CI-427** is a colorless, oil-soluble, anti-wear additive and corrosion inhibitor for use in industrial lubricants formulated for incidental food contact. It is soluble in synthetic esters, vegetable oils, white oils, and polyalphaolefins.

#### COMPOSITION:

**FUNCTIONAL CI-427** 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. **FUNCTIONAL CI-427** is also NSF approved (Reg. #154971) as an HX-1 and HX-2 component in lubricants.

Typical Properties	
Appearance	Colorless to slight yellow liquid
Odor	Mild amine
Specific Gravity	0.94
Lbs per Gallon	7.8
Flash Point	100°C (212°F)
Kinematic Viscosity	600 cSt at 40°C
pH	8.0 - 9.5
Phosphorus	5.3 - 7.3

#### TREATMENT LEVEL:

**FUNCTIONAL CI-427** is permitted in food-grade lubricants at levels up to 0.5%. If only rust protection is required, a starting level of 0.1% is recommended for normal protection (ASTM D665A) and 0.2% for salt water protection (ASTM D665B). **FUNCTIONAL CI-427** may be used with antioxidants, viscosity improvers or other additives customarily used in these applications.

#### HANDLING:

In its concentrated form, **FUNCTIONAL CI-427** 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. **154971**

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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