

SAFETY DATA SHEET

According to REACH, Commission Regulation (EU) 2015/830 of 28 May 2015

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	FUNCTIONAL HF-590
Chemical Family	Lubricant Additive
Product Use	Hydraulic Fluid package
CAS Registry Number	Mixture
Revision Date	June 15, 2017

Manufacturer: Functional Products, Inc.
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 Macedonia, Ohio 44056, USA
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 Fax (USA): + 1 330-963-3322
 E-mail: SDS@functionalproducts.com

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 Milanesat, 25-27, 4t. 1a.
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 Tel: + 34 93 594 75 00
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Emergency Phone Numbers:
 United States: + 330-963-3060 (8:00AM-5:00PM EST)
 Europe + 34 93 594 75 00 (08:00 -13:00 14:00-17:00)
 France (ORFILA): + 33 (0)1 45 42 59 59

Section 2: HAZARDS IDENTIFICATION

This material is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

According to Regulation (EC) N^o 1272/2008 [CLP]

This is not a hazardous substance or mixture according Regulation (EC) No. 1272/2008.
 No need for classification according to GHS criteria for this product.

According to Directive 67/548/EEC or 1999/45/EC

This is not a hazardous substance of mixture according to EC-directives 67/548/EEC or 1999/45/EC. This material has no known hazards, if the regulations/notes for storage and handling are considered and followed.

2.2 LABEL ELEMENTS

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

According to Regulation (EC) N° 1272/2008 [CLP]

The product does not require a hazard warning label in accordance with Regulation (EC) No. 1272/2008.

According to Directive 67/54//EEC or 1999/45/EC

European Economic Community (EEC) Directives

The product does not require a hazardous warning label in accordance with EEC Directives.

2.3 OTHER ELEMENTS

If it is applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

According to Regulation (EC) No. 1272/2008 [CLP]

This material has no known hazards

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/ Preparation	(% W/W)	CAS #
Alkyl phenols	16-20	Proprietary
Alkyl dithiophosphate	15-20	Proprietary
Calcium alkyl sulfonate	4-7	Proprietary
Alkylated diphenylamine	8-10	Proprietary
Copper corrosion inhibitor	0-2	Proprietary
Glycerides C10-18	8-12	Proprietary
Alkyl dithiocarbamate	35-40	Proprietary

Section 4: FIRST-AID MEASURES

Inhalation:	If inhaled, remove to fresh air. Seek medical attention.
Ingestion:	Seek medical attention. Never give anything to drink to an unconscious person.
Skin Contact:	Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation develops.
Eye Contact:	In case of contact, immediately flush eyes with plenty of water and seek medical advice.

Section 5: FIRE-FIGHTING MEASURES

Flash Point:	Approximately > 232° C / > 450° F
Upper Flammable Limit:	Not determined.
Lower Flammable Limit:	Not determined.
Extinguishing Media:	In case of fire use Carbon dioxide (CO ₂) foam or dry chemicals.
Hazardous Combustion	Oxides of carbon phosphorus and sulfur
Fire-fighting Procedures:	Recommended wearing self-contained breathing apparatus and full turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Personal Protective Equipment must be worn. Keep unnecessary personnel away.
Environmental Precautions And Clean Up Methods:	Spills should be contained, absorbed and containerized for disposal per local, state and federal regulations. Prevent entry to drains, sewers and water-ways.

Section 7: HANDLING AND STORAGE

Handling:	Wash thoroughly after handling.
Storage:	Keep container tightly closed, in cool well-ventilated area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use with adequate ventilation.
Hands:	Use chemical resistant, impervious gloves.
Eyes:	Use safety glasses, goggles or face mask.
Clothing:	Long sleeve shirt is recommended.
Respiratory System:	Use appropriate respiratory protection. Avoid inhaling vapors.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Color:	Amber
Odor:	Mild
Density:	0.97 g / cm ³ at 15°C (59°F)
Solubility:	Insoluble in water.
Boiling Point:	N / A
Vapor Pressure:	< 0.1
Evaporation Rate:	< 1

Section 10: STABILITY AND REACTIVITY

Stability: The product is stable.
Incompatibility: Strong oxidants and reducing agents.
Conditions to Avoid: Not known

Section 11: TOXICOLOGICAL INFORMATION

ACUTE EXPOSURE

Oral Toxicity: No data available
Eye Irritation: No data available
Skin Irritation: No data available
Dermal Toxicity: No data available
Inhalation Toxicity: No data available

CHRONIC EXPOSURE

Chronic Toxicity: No data available
Carcinogenicity: No data available
Teratogenicity: No data available
Reproductive Toxicity: No data available

Section 12: ECOLOGICAL INFORMATION

Environmental Hazards: No data available
Environmental Fate: No data available
Fish Toxicity: No data available
Algae Toxicity: No data available
Bacteria Toxicity: No data available

Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: TRANSPORTATION INFORMATION

U.S DOT Bulk Not regulated
U.S. DOT Non-Bulk Not regulated
IMDG Code Not regulated
ICAO Not regulated
ADR/RID Hazard Class Not regulated

Section 15: REGULATORY INFORMATION

U.S. TSCA Inventory:	Yes
Other TSCA Reg.:	No
SARA EXT. HAZ. SUBS:	No
SARA Section 313:	No
CERCLA:	No
CAL. PROP. 65:	No
Japan MITI:	Listed - MITI
Australia:	Listed - AICS
Europe:	Listed - EINECS Polymers are exempt from EINECS inventory under the polymer exemption.
China	Listed - IECSC
Canada	Listed - DSL WHMIS – not controlled.
Korea	Listed - KECI
New Zealand	Listed - NZIoC
Philippines	Listed - PICCS

Section 16: OTHER INFORMATION

NFPA Code Health: 1 Fire: 1 Reactivity: 0

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