

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-580
Chemical Family	Hydraulic fluid package
Product Use	Hydraulic Fluid package for Biodegradable Base Oils
CAS Registry Number	Mixture
Revision Date	June 15, 2017

Manufacturer: Functional Products, Inc.
8282 Bavaria Road
Macedonia, Ohio 44056, USA
Tel (USA): + 1 330-963-3060
Fax (USA): + 1 330-963-3322
E-mail: SDS@functionalproducts.com

European Supplier: Lumar Quimica S.L.U.
Milanesat, 25-27, 4t. 1a.
08017 Barcelona
Spain
Tel: + 34 93 594 75 00
Fax: + 34 93 594 75 01
E-mail: lumar@lumarquimica.com

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

GHS Classification

Aquatic Acute: Category 3. Aquatic Chronic: Category 3.

GHS Label Elements

None

Signal Word

None

Hazard Statements

H402- Harmful to aquatic life. H412 – Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention

P273 – Avoid release to the environment.

Disposal

P501 – Dispose of contents/container to hazardous or special waste collection point.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance/ Preparation	(% W/W)	CAS #
Alkyl phenols	40-60	Proprietary
Alkyl Dithiophosphate	20-30	Proprietary
Alkyl Diphenyl Amine	10-20	Proprietary
Alkyl thiadiazole	0-5	Proprietary
Polyamine derivative	0-5	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: 0.98 g / cm³ 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: 2 Fire: 1 Reactivity: 0

Full text of phrases referred to in Section 3:

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

The information presented herein has been compiled from sources considered to be dependable and are accurate to the best of FUNCTIONAL PRODUCTS INC. knowledge at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety data sheet contains information relating to safety only and does not replace any product information or product specification. Suggestions or applications are only opinions. Users are responsible for determining the suitability of this material for their own particular purpose. FUNCTIONAL PRODUCTS INC. makes no warranty whatsoever and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.