

# SYF-990/HYDROPLUSFG

SYNTHETIC (PAO) OILS, SUITABLE FOR INCIDENTAL FOOD CONTACT

## Product Description

SYF-990/ HYDROPLUS FG Synthetic Food Grade Lubricants are a range of non-toxic, mineral hydrocarbon free hydraulic fluids for use within clean environments.

The product is approved by NSF International as H1 grade Lubricant. The product meets requirements of USDA H1\* 21 CFR. (Registered by NSF (Class H1) for use where there is potential for incidental contact with food. These products meet the former guidelines (1998) of the US Department of Agriculture Food Safety and Inspection Service (USDA FSIS) for H1 use (lubricant with incidental food contact) and listed in Miscellaneous Publication No 1419 "List of Proprietary Substances and Nonfood Compounds". Product contains only substances permitted under US 21 CFR 178.3570, 178.3620 and 182 for use in lubricants with incidental food contact.)

SYF-990/ HYDROPLUS FG Synthetic Food Grade Lubricant increase service intervals operate over a wide temperature range and provide excellent corrosion protection. Synthetic Food Grade Lubricant fluids are resistant to water wash off and are particularly suitable for use in wet conditions and applications where frequent wash downs occurs.

## Applications

SYF-990/ HYDROPLUS FG oils are suitable for most modern Hydraulic Industrial Systems with various pump designs. It possesses high load carrying capacity and provides excellent anti-wear protection.

## Benefits

- Good load carrying capabilities FZG load stage 12.
- Tenacious, non-drip film.
- Excellent corrosion protection.
- Good water displacing properties.
- They do not contain any natural products derived from animals, nuts or genetically modified organisms (GMOs). It is Suitable for use where vegetarian and nut-free food is prepared and do not promote the growth of bacteria or fungal organisms.

## Technical Data

PROPERTIES (ISO VG)	Test Method	10	15	22	32	46	68	100	220	320	460
Type		Synthetic oils									
Color		Colorless									
Odour		Odorless									
Base Oil		Poly Alpha Olefin (PAO)									
Specific Gravity	ASTM D1296	0.82	0.82	.082	0.83	0.83	0.84	0.84	0.87	0.88	0.87
Flash Point °C	ASTM D92	180	216	220	250	255	260	255	255	255	255
Viscosity @ 40 °C CST	ASTM D45	10	15	22	32	46	68	100	220	320	460
Viscosity @ 100 °C CST	ASTM D45	2.62	4.0	4.4	6	7	8	13	26	35	46
Viscosity Index	ASTM D2270	91	127	120	132	135	148	148	150	155	155
Pour Point. °C	ASTM D97	-46	-44	-44	-40	-38	-37	-35	-36	-33	-27
Fire Point °C	ASTM D92	270	275	275	280	285	320	310	310	310	310
Aniline Point °C	ASTMD-611	115	115	115	115	115	115	115	115	115	115

**Available Packs - 5, 20 and 210 Ltr**

**Shelf Life- 36 Months from manufacturing month.**

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

\*All related specifications are meets or exceeds.

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product** Synthetic Food Grade Lubricant  
**Product Name** SYF 990/HYDROPLUS FG Series  
**Supplier** PETRELPLUS INC.  
 One World Center, Tower One, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.  
 Call # +91 22 6216 7072  
 (Monday to Friday)  
 Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
[www.petrelplus.com](http://www.petrelplus.com)

**2. COMPOSITION**

Synthetic base oils and Proprietary additives

**3. HAZARDS IDENTIFICATION**

Not classified as hazardous. Other Hazards:

**4. FIRST-AID MEASURES**

**RESPIRATORY SYSTEM** Remove to fresh air and get medical attention.

**INGESTION-** Do not induce vomiting. Wash mouth out with water and obtain medical attention.

**EYES** Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention.

**SKIN** Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

**5. FIRE-FIGHTING METHODS**

Foam, carbon dioxide or dry power

**6. ACCIDENTAL RELEASE MEASURE**

Contain and absorb in sand or earth. Ensure no material enters drains or water courses. Dispose of as solid waste in accordance With the relevant waste disposal regulations.

**7. STORAGE AND HANDLING**

Store in delivery packs in a cool dry place

**HANDLING**

At ambient temperatures wear gloves overalls and eye protection. The work area should be adequately ventilated. No eating drinking or smoking in the work area.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Exposure Standard:** Exposure Standard: The substance with exposure limit is: Notation 1: Exposure Standard: 2nd substance with exposure limit is: Notation 2:

**PERSONAL PROTECTION**

Respiratory Protection:

Type of Cartridge (if Applicable): Eye Protection: Safety Spectacles

Hand Protection: Gloves butyl or nitrile rubber

Industrial Hygiene: No eating drinking or smoking in the work area Ventilation: At room temperature handle in a well-ventilated area. Use exhaust ventilation if exposure to flume or aerosol can occur.

**PROTECTION AGAINST FIRE AND EXPLOSION**

Combustible but not readily ignited. No explosion hazard.

**EC SAFETY PHRASES** Not classified as hazardous.

**9. TYPICAL PROPERTIES:**

Specific Gravity 0.82-0.88  
 Flash Point °C 180-260  
 Viscosity @ 40 °C CST 10-460

**10. STABILITY AND REACTIVITY  
 HAZARDOUS REACTIONS**

**Comments**

HAZARDOUS DECOMPOSITION PRODUCTS Thermal decomposition produces noxious fumes.

**11. TOXICOLOGICAL INFORMATION**

LD50 Acute Oral Toxicity: > 5000: mg/Kg: Rat

LC50 Acute Inhalation: mg/1:

Eye Irritation: No: Rabbit

Skin Irritation: No.: Rabbit

Sensation: No:

Further Information:

**12. ECOLOGICAL INFORMATION**

LC50 (96 Hour): mg/1

EC50 (24 Hour): mg/1

Biodegradability (Coupled units):

**13. DISPOSAL CONSIDERATIONS**

Solid material should be incinerated. Material absorbed on sand should be disposed of as solid waste.

**14. TRANSPORT INFORMATION**

IMDG No.: Not classified

Packing Groups: IATA-DGR

Class No.: Not classified TREMCARD: Not classified

RID/ADR Class No.: Not classified Other Information

**15. REGULATORY INFORMATION**

Classification and labeling according to EC Directives 67/548

Not classified as hazardous. EC Risk Phrases Not classified as hazardous. Other Hazardous EC Safety Phrases Not classified as hazardous

**16. OTHER INFORMATION**

**PRODUCT SAFETY**

For safety reasons, it is IMPERATIVE that customer: - Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.