

SYF-900/FREEZPLUS SHC SERIES SYNTHETIC REFRIGERATION COMPRESSOR LUBRICANT

Product Description

SYF-900/FREEZPLUS SHC Series are a family of fully synthetic industrial lubricants. Developed specifically for refrigeration compressor. They are especially formulated, Synthesized hydrocarbon lubricants for severe service under conditions that are beyond the capabilities of conventional mineral oils.

In addition, they improve the performance and efficiency of standard refrigeration system compared to conventional mineral oils. These four grades have very low pour points, zero wax content, a high natural viscosity index and thermal stability. They exhibit greater chemical stability in the presence of refrigerants and other systems components, and have a low volatility. Their low Solubility makes them suitable for systems using refrigerants such as **R12, R22, R114, and Ammonia**.

Applications

SYF-900/FREEZPLUS SHC Series are fully miscible with conventional mineral oils. If inadvertently mixed with mineral oils, there will be some loss in the superior performance properties of the synthetic lubricant. The lubricant however, can be continued in service until it becomes convenient of change the system

Benefits

SYF-900/FREEZPLUS SHC Series offer these advantages and benefits,

- Improved wear protection at high temperatures.
- No deposit formation in low-temperature systems.
- Fewer discharge valve deposits.

Typical Properties

PROPERTIES	32	46	68	100	TEST METHOD
Specific Gravity @ 15.6°C	0.832	0.832	0.836	0.836	ASTM1296
Flash Point °C	250	255	265	265	ASTMD92
Viscosity @ 40 °C CST	32	46	68	97	ASTMD45
Viscosity @ 100 °C CST	6	8	11.5	12.9	ASTMD45
Viscosity Index	132	135	148	148	ASTM2270
Pour Point °C	-70	-60	-55	-53	ASTMD-92
Fire Point °C	280	285	300	310	ASTMD-92
Aniline Point °C	115	115	115	116	ASTMD-611
Moisture ppm	15	15	15	15	ASTMD-1744

Available Packs: 20, 50 and 210 Litres.

Shelf Life – 36 Months from the Manufacturing month.

* All related specifications are meets or exceeds.

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.

1. PRODUCT AND COMPANY IDENTIFICATION

Product SYF-900 / FREEZPLUS SHC SERIES
Supplier PETRELPLUS INC.

One World Center, Tower One, 9th Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.
Call # +91 22 6216 7072
(Monday to Friday)
Cell # +91 93522 25457
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2. COMPOSITION

Composition of Synthetic base oils and Proprietary additives.

3. HAZARDS IDENTIFICATION

Not classified as Hazardous

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 powder.

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

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.

Storage - Store in delivery packs in a cool & dry place.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

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

ISO VG	- 32, 46, 68 and 100
Flash Point °C	- 250 to 265
Viscosity @ 40 °C,	- 32, 46, 68 and 100
Pour Point, °C	- (-53 to -70)

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.

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