

## HYSYN FG-68

Version 1.1      Revision Date: 2026/03/06      Date of last issue: 2025/10/31  
Date of first issue: 2025/10/31      Print Date: 2026/03/06

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : HYSYN FG-68

Article-No. : 340470

#### Recommended use of the chemical and restrictions on use

Recommended use : Lubricants

Restrictions on use : Restricted to professional users.

#### Manufacturer or supplier's details

Company : Klüber Lubrication NA LP  
9010 County Road 2120  
Tyler, Texas 75707  
USA  
Phone: +1 903 534 8021  
Fax: +1 903 581 4376  
info@us.kluber.com

Klüber Lubrication NA LP  
32 Industrial Drive  
Londonderry, NH 03053  
USA  
Phone: +1 603 647 4104  
Fax: +1 603 647 4106  
info@us.kluber.com

E-mail address of person responsible for the SDS : mcm@us.kluber.com

National contact : Klueber Lubrication Korea Ltd.  
90, Cheolgangsandan-ro 66beon-gil,  
Daesongmyun, Nam-ku, Pohang-si,  
Kyungsangbuk-do, 37875,  
Korea  
Phone : +82-54-278-5151  
E-mail : sbkim@klueber.co.kr  
www.klueber.co.kr

Emergency telephone number : +82-54-278-5151

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Long-term (chronic) aquatic hazard : Category 3

#### GHS label elements

Hazard pictograms : Not applicable

Signal word : Not applicable

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/ container according to waste-related laws

#### Other hazards which do not result in classification

No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Synthetic hydrocarbon oil

#### Components

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
White mineral oil (petroleum)	White mineral oil (petroleum)	8042-47-5	< 1
Distillates (petroleum), hydrotreated middle	Distillates (petroleum), hydrotreated middle	64742-46-7	< 1

### 4. FIRST AID MEASURES

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- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
In case of contact, immediately flush skin with plenty of water.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.
- Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
- Notes to physician : Treat symptomatically.

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## 5. FIREFIGHTING MEASURES

### **Suitable and unsuitable extinguishing media**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon oxides
- Specific extinguishing : Standard procedure for chemical fires.



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Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Store in accordance with the particular national regulations.  
 Keep in properly labelled containers.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
White mineral oil (petroleum)	8042-47-5	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

**Engineering measures** : none

**Personal protective equipment. Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.**

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type A-P

Eye protection : Safety glasses with side-shields

Hand protection

Material : Nitrile rubber

Break through time : > 10 min

Protective index : Class 1

Remarks : For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after

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handling.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	Not applicable
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	$\geq 240$ °C Method: ISO 2592, open cup
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	$< 0.001$ hPa (20 °C)
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Relative vapour density	:	No data available

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Relative density	:	0.833 (20 °C) Reference substance: Water The value is calculated
Density	:	0.83 g/cm <sup>3</sup> (20 °C)
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	68 mm <sup>2</sup> /s ( 40 °C)
Evaporation rate	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available
Sublimation point	:	No data available

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### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	:	Reactivity: No hazards to be specially mentioned. Chemical stability: Stable under normal conditions. Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No conditions to be specially mentioned.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : No data available

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### Health hazard information

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Product:

- Acute oral toxicity : Remarks: This information is not available.
- Acute inhalation toxicity : Remarks: This information is not available.
- Acute dermal toxicity : Remarks: This information is not available.

#### Components:

##### **White mineral oil (petroleum):**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes
- Acute inhalation toxicity : LC50 (Rat): > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

##### **Distillates (petroleum), hydrotreated middle:**

- Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

#### **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

#### Product:

- Remarks : This information is not available.

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### Components:

#### **White mineral oil (petroleum):**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

#### **Distillates (petroleum), hydrotreated middle:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

### Product:

Remarks : This information is not available.

### Components:

#### **White mineral oil (petroleum):**

Species : Rabbit  
Result : No eye irritation  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
GLP : yes

#### **Distillates (petroleum), hydrotreated middle:**

Species : Rabbit  
Result : No eye irritation  
Assessment : No eye irritation  
Method : OECD Test Guideline 405

#### **Respiratory or skin sensitisation**

##### **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

##### **Skin sensitisation**

Based on available data, the classification criteria are not met.

### Product:

Remarks : This information is not available.

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### **Components:**

#### **White mineral oil (petroleum):**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Product:**

Remarks : No data available

### **Components:**

#### **White mineral oil (petroleum):**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

#### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

#### **Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### **Components:**

#### **White mineral oil (petroleum):**

Genotoxicity in vitro : Test Type: Ames test  
Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay)  
Result: negative  
GLP: yes

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

#### **Product:**

Effects on fertility : Remarks: No data available

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Effects on foetal development : Remarks: No data available

### Components:

#### **White mineral oil (petroleum):**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No effects on or via lactation

#### **STOT - single exposure**

Based on available data, the classification criteria are not met.

#### **Product:**

Remarks : No data available

### Components:

#### **White mineral oil (petroleum):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **STOT - repeated exposure**

Based on available data, the classification criteria are not met.

#### **Product:**

Remarks : No data available

### Components:

#### **White mineral oil (petroleum):**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Repeated dose toxicity**

#### **Product:**

Remarks : This information is not available.

### Components:

#### **White mineral oil (petroleum):**

NOAEL : 1,800 mg/kg  
Exposure time : 90 d

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**Aspiration toxicity**

Based on available data, the classification criteria are not met.

**Product:**

This information is not available.

**Components:**

**White mineral oil (petroleum):**

No aspiration toxicity classification

**Distillates (petroleum), hydrotreated middle:**

May be fatal if swallowed and enters airways.

**Experience with human exposure**

No data available

**Toxicology, Metabolism, Distribution**

No data available

**Neurological effects**

No data available

**Further information**

**Product:**

Remarks : Information given is based on data on the components and the toxicology of similar products.

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

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### Components:

#### **White mineral oil (petroleum):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): >= 1,000 mg/l  
Exposure time: 21 d

### **Persistence and degradability**

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

### Components:

#### **White mineral oil (petroleum):**

Biodegradability : Primary biodegradation  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 31 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

### **Bioaccumulative potential**

#### Product:

Bioaccumulation : Remarks: No data available

### Components:

#### **White mineral oil (petroleum):**

Partition coefficient: n-octanol/water : Pow: > 6

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### Mobility in soil

**Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### Other adverse effects

**Product:**

Additional ecological information : Harmful to aquatic life with long lasting effects.

**Components:**

**White mineral oil (petroleum):**

Results of PBT and vPvB assessment : Non-classified PBT substance  
Non-classified vPvB substance

**Distillates (petroleum), hydrotreated middle:**

Results of PBT and vPvB assessment : Non-classified PBT substance  
Non-classified vPvB substance

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## 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

### Disposal precautions

Dispose of contents and container according to wastes control act.

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## 14. TRANSPORT INFORMATION

### International Regulations

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**UNRTDG**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Environmentally hazardous : no

**IATA-DGR**

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

**IMDG-Code**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : no

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations**

Refer to section 15 for specific national regulation.

**Special precautions for user**

Not applicable

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**15. REGULATORY INFORMATION**

**National regulatory information**

**Regulation under the Occupational Safety and Health Act**

**Harmful Substances Prohibited from Manufacturing**

Not applicable

**Harmful Substances Required Permission for Manufacture**

Not applicable

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**Harmful Agents to be kept below Occupational Exposure Limits**  
Not applicable

**Harmful Agents Required to be kept below Permission Levels**  
Not applicable

**Hazardous substances requiring management**  
Not applicable

**Special Management Materials**  
Not applicable

**Controlled Substances Subject to Environment Monitoring**  
Not applicable

**Controlled Substances Subject to Health Examination**

Chemical name	CAS-No.	Threshold limits (%)
Oil mist, mineral	8042-47-5	
Oil mist, mineral	64742-46-7	

**Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation**  
Not applicable

**K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)**  
Not applicable

**K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)**  
Not applicable

**Regulation under the Chemicals Control Act**

**Toxic Chemicals**  
Not applicable

**Restricted Chemicals**  
Not applicable

**Prohibited Chemicals**  
Not applicable

**Toxic Release Inventory**  
Not applicable

**Accident Precaution Chemicals**  
Not applicable

**Dangerous Substances Safety Management Act**

Classification : Group 4, Flammable liquids, Type 4 petroleum

Hazard rank : Hazardous rank III

Designated Quantity : 6000 litre

Safety Warning : Keep away from fire



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- Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

|| Relevant changes compared to the last edition are highlighted at the left margin. This version replaces all previous editions.

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