

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

### SECTION 1. IDENTIFICATION

Product name : HYSYN FG-46

Article-No. : 340469

#### Manufacturer or supplier's details

Company name of supplier : 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 : klua-productstewardship@klueber.com

Emergency telephone number : +1 517 545 7070 NCEC

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

Recommended use : Lubricating oil

Restrictions on use : Restricted to professional users.

### SECTION 2. HAZARDS IDENTIFICATION

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

#### Hazards for the product as supplied

Not a hazardous substance or mixture.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

### GHS label elements

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

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Synthetic hydrocarbon oil

### Components

No hazardous ingredients

## SECTION 4. FIRST AID MEASURES

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.

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.

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.

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 : No symptoms known or expected.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version	Revision Date:	Date of last issue: 05/06/2025	Print Date:
3.1	04/29/2026	Date of first issue: 09/02/2021	04/29/2026

and effects, both acute and delayed

Notes to physician : Treat symptomatically.

### SECTION 5. FIREFIGHTING MEASURES

- 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
- Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.  
Exposure to decomposition products may be a hazard to health.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
Ensure adequate ventilation.  
Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid inhalation of vapour or mist.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not ingest.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.
- Conditions for safe storage : Store in original container.  
Keep container closed when not in use.  
Keep in a dry, cool and well-ventilated place.  
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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Maintain air concentrations below occupational exposure standards.

#### Personal protective equipment

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

Filter type : Filter type A-P

#### 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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version	Revision Date:	Date of last issue: 05/06/2025	Print Date:
3.1	04/29/2026	Date of first issue: 09/02/2021	04/29/2026

- Eye protection : Safety glasses with side-shields
- 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 handling.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Colour : yellow
- Odour : characteristic
- Odour Threshold : No data available
- Melting point/ range : No data available
- Boiling point/boiling range : No data available
- Flammability : Flammability (solid, gas):  
Not applicable
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Flash point :  $\geq 464$  °F / 240 °C  
Method: ISO 2592, open cup
- Auto-ignition temperature : No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

Self-ignition : No data available

Decomposition temperature : No data available

pH : Not applicable

Viscosity

    Viscosity, dynamic : No data available

    Viscosity, kinematic : 46 mm<sup>2</sup>/s (104 °F / 40 °C)

Solubility(ies)

    Water solubility : insoluble

    Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Vapour pressure : 0.005 hPa (68 °F / 20 °C)

Density : 0.83 g/cm<sup>3</sup> (68 °F / 20 °C)

Relative density : 0.830 (68 °F / 20 °C)  
Reference substance: Water  
The value is calculated

Relative vapour density : No data available

Bulk density : Not applicable

Particle characteristics  
Other information

Evaporation rate : No data available

Explosive properties : Not explosive

Oxidizing properties : No data available

Sublimation point : Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

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.

## SECTION 11. TOXICOLOGICAL 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.

### Skin corrosion/irritation

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

#### Product:

Remarks : This information is not available.

### Serious eye damage/eye irritation

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

#### Product:

Remarks : This information is not available.

### Respiratory or skin sensitisation

#### Skin sensitisation

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

#### Respiratory sensitisation

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

#### Product:

Remarks : This information is not available.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

### 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

### Carcinogenicity

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

#### Product:

Remarks : No data available

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**IARC  
OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

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

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### STOT - single exposure

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

#### Product:

Remarks : No data available

### STOT - repeated exposure

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

#### Product:

Remarks : No data available

### Repeated dose toxicity

#### Product:

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version	Revision Date:	Date of last issue: 05/06/2025	Print Date:
3.1	04/29/2026	Date of first issue: 09/02/2021	04/29/2026

Remarks : This information is not available.

### Aspiration toxicity

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

#### Product:

This information is not available.

### Further information

#### Product:

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

## SECTION 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

### Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### Other adverse effects

#### Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances  
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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

## SECTION 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.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version 3.1	Revision Date: 04/29/2026	Date of last issue: 05/06/2025 Date of first issue: 09/02/2021	Print Date: 04/29/2026
----------------	------------------------------	---	---------------------------

### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

### Special precautions for user

Not applicable

## SECTION 15. REGULATORY INFORMATION

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version	Revision Date:	Date of last issue: 05/06/2025	Print Date:
3.1	04/29/2026	Date of first issue: 09/02/2021	04/29/2026

## SECTION 16. OTHER INFORMATION

### Further information

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Revision Date : 04/29/2026

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

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard  
- US



## HYSYN FG-46

Version	Revision Date:	Date of last issue: 05/06/2025	Print Date:
3.1	04/29/2026	Date of first issue: 09/02/2021	04/29/2026

---

forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.