

# SL-FRHF-32

## Synthetic Fire Resistant Hydraulic Fluid

### Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03.

#### 1. Identification

##### Product identifier

Trade name SL-FRHF-32  
Product description Synthetic Fire Resistant Hydraulic Fluid

##### Details of the supplier of the safety data sheet

Manufacturer/supplier Synthetic Lubricants & Filters, Inc  
7401 University Drive - Shreveport, LA 71105  
318-779-0682  
Emergency telephone number 318-779-0682

#### 2. Hazard(s) Identification

Classification of the substance or mixture The substance is not classified according to the Globally Harmonized System (GHS).

##### Label elements

GHS label elements Non-regulated material  
Hazard pictograms Non-regulated material  
Signal word Non-regulated material  
Hazard statements Non-regulated material

##### Classification System

NFPA ratings (scale 0-4)



Health=0; Fire=1; Reactivity=0

HMIS-ratings (scale 0 - 4)



Health=0; Fire=1; Reactivity=0



# SL-FRHF-32 - Synthetic Fire Resistant Hydraulic Fluid

## 3. Composition / Information on Ingredients

Chemical characterization	Mixtures
Description	Mixture of the substances listed below with nonhazardous additions
Dangerous Components	Non-regulated material

## 4. First-aid Measures

### Description of first aid measures

General information	No special measures required
After inhalation	Supply fresh air; consult doctor in case of complaints
After skin contact	Generally the product does not irritate the skin
After eye contact	Rinse opened eye for several minutes under running water
After swallowing	If symptoms persist, consult doctor
Most important symptoms and effects, both acute and delayed	No further relevant information available
Indication of any immediate medical attention and special treatment needed	No further relevant information available

## 5. Fire-fighting Measures

### Extinguishing media

Suitable extinguishing agents	CO <sub>2</sub> or Powder. Water mist to cool, no direct water spray. Collect spillage.
Special hazards arising from the substance or mixture	No further relevant information available

### Advice for firefighters

Protective equipment	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
----------------------	---

## 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Not required
Environmental precautions	No special measures required
Methods and material for containment and cleaning up	Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust). Dispose of the collected material according to regulations. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
Reference to other sections	



# SL-FRHF-32 - Synthetic Fire Resistant Hydraulic Fluid

## 7. Handling and Storage

Precautions for safe handling                      No special measures required

Information about protection against  
explosions and fires                      No special measures required

### Conditions for safe storage, including any incompatibilities

#### Storage

Requirements to be met by  
storerooms and receptacles                      No special requirements

Information about storage in one  
common storage facility                      Not required

Further information about  
storage conditions                      None

Specific end use(s)                      No further relevant information available

## 8. Exposure Controls / Personal Protection

Additional information about design  
of technical systems                      No further data; see section 7

### Control parameters

Components with occupational  
exposure limits                      The product does not contain any relevant quantities of materials with critical  
values that have to be monitored at the workplace

Additional information                      The lists that were valid during the creation were used as basis

### Exposure controls

#### Personal protective equipment

General protective and  
hygienic measures                      The usual precautionary measures for handling chemicals should be followed

Breathing equipment                      Normally not necessary. If mist is generated, wear approved organic vapor  
respirator suitable for oil mist areas with sufficient oxygen.

Protection of hands                      Normally none required, for direct contact of more than 2 hours, PVC, Viton, or  
Nitrile gloves are recommended.

Material of gloves                      Not required

Penetration time of glove material                      Not applicable

Eye protection                      Normally none required, chemical goggles if splashing is likely or high pressure  
systems are used.



# SL-FRHF-32 - Synthetic Fire Resistant Hydraulic Fluid

## 9. Physical and Chemical Properties

Information on basic physical and chemical properties

### General Information

#### Appearance

Form	Liquid
Color	See product
Odor	Mild
Odor Threshold	Not determined
pH-value	Not determined

#### Change in condition

Melting point/Melting range	Not applicable
Boiling point/Boiling range	>570°F (>298°C)
Flash Point	>400°F (>205°C)
Flammability (solid, gaseous)	Not applicable

#### Ignition temperature

Decomposition temperature	Not determined
Auto-igniting	Not determined
Danger of explosion	Not determined

#### Explosion limits

Lower	Not determined
Upper	Not determined
Vapor Pressure @ 20 DEG C	<0.003 kPa
Density @ 20 DEG C	0.85-0.89
Relative Density	Not determined
Vapor Density	Not determined
Evaporation Rate	Not determined
Solubility in/Miscibility with Water	Not miscible
Partition coefficient (n-octanol/water)	Not determined

#### Viscosity

Viscosity - Dynamic	Varies with grade
Viscosity - Kinematic	Varies with grade

#### Solvent content

Organic solvents	0.00%
Other Information	No further information



# SL-FRHF-32 - Synthetic Fire Resistant Hydraulic Fluid

## 10. Stability and Reactivity

Reactivity	No further relevant information available
Chemical stability	Stable under normal conditions
Thermal decomposition / conditions to be avoided	No decomposition if used according to specifications
Possibility of hazardous reactions	No dangerous reactions known
Conditions to avoid	No further relevant information available
Incompatible materials	No further relevant information available
Hazardous decomposition products	No dangerous decomposition products known

## 11. Toxicological Information

### Information on toxicological effects

#### Acute toxicity

#### Primary irritant effect

On the skin	No irritating effect
On the eye	No irritating effect
Additional toxicological information	The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

#### Carcinogenic categories

IARC (International Agency for Research on Cancer)	None of the ingredients are listed. Group 1 - Carcinogenic to humans Group 2A - Probably carcinogenic to humans Group 2B - Possibly carcinogenic to humans Group 3 - Not classifiable as to its carcinogenicity to humans Group 4 - Probably not carcinogenic to humans
NTP (National Toxicology Program)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Administration)	None of the ingredients are listed

## 12. Ecological Information

Toxicity	No data is available on this product
Aquatic toxicity	No further relevant information available
Persistence and degradability	No further relevant information available
Bioaccumulative potential	No further relevant information available
Mobility in soil	No further relevant information available
Additional ecological information	



# SL-FRHF-32 - Synthetic Fire Resistant Hydraulic Fluid

## 12. Ecological Information (continued)

General notes	Generally not hazardous for water
<b>Results of PBT and vPvB assessment</b>	
PBT	Not applicable
vPvB	Not applicable
Other adverse effects	No further relevant information available

## 13. Disposal Considerations

### Waste treatment methods

Recommendation	Smaller quantities can be disposed of with household waste. Recycle or dispose with household trash.
----------------	--

### Uncleaned packagings

Recommendation	Disposal must be made according to official regulations.
----------------	--

## 14. Transportation Information

### UN-Number

DOT, ADN, IMDG, IATA	Non-regulated material
ADR	Non-regulated material

### UN proper shipping name

DOT, ADR, ADN, IMDG, IATA	Non-regulated material
---------------------------	------------------------

### Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA	
Class	Non-regulated material

### Packing group

DOT, ADR, IMDG, IATA	Non-regulated material
----------------------	------------------------

### Environmental hazards

Marine pollutant	No
Special precautions for user	Not applicable
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable
UN "Model Regulation"	—



# SL-FRHF-32 - Synthetic Fire Resistant Hydraulic Fluid

## 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

### Sara

Section 355 (extremely hazardous substances)	None of the ingredients are listed
--	------------------------------------

Section 313 (Specific toxic chemical listings)	None of the ingredients are listed
--	------------------------------------

TSCA (Toxic Substances Control Act)	None of the ingredients are listed
-------------------------------------	------------------------------------

### Proposition 65

Chemicals known to cause cancer	None of the ingredients are listed
---------------------------------	------------------------------------

Chemicals known to cause reproductive toxicity for females	None of the ingredients are listed
--	------------------------------------

Chemicals known to cause reproductive toxicity for males	None of the ingredients are listed
--	------------------------------------

Chemicals known to cause developmental toxicity	None of the ingredients are listed
---	------------------------------------

### Carcinogenic categories

EPA (Environmental Protection Agency)	None of the ingredients are listed
---------------------------------------	------------------------------------

TLV (Threshold Limit Value established by ACGIH)	None of the ingredients are listed
--	------------------------------------

NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients are listed
--	------------------------------------

GHS label elements	Non-regulated material
--------------------	------------------------

Hazard pictograms	Non-regulated material
-------------------	------------------------

Signal word	Non-regulated material
-------------	------------------------

Hazard statements	Non-regulated material
-------------------	------------------------

National regulations	Non-regulated material
----------------------	------------------------

State Right to Know	Non-regulated material
---------------------	------------------------

Chemical safety assessment	A Chemical Safety Assessment has not been carried out.
----------------------------	--



# SL-FRHF-32 - Synthetic Fire Resistant Hydraulic Fluid

## 16. Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision

02/19/2016 / 1

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

