



1- Product identifier

Trade name of the product:

Pirobloc HTF-FDA HT1 NSF

Product use:

Purity FG Heat Transfer Fluid is a heat transfer fluid for non pressurized, liquid-phase, closed heat transfer systems. NSF H1 Registered.

All components comply with FDA 21 CFR 178.3570 "Lubricants with Incidental Food Contact".

It is intended for application on industrial and food equipment. It should not be added directly to the food product.

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Date of issue:

01/12/2022

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+34 937 189 064 (only during office hours)

2- Hazards identification

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

Not a hazardous substance or mixture.

Label elements

Labelling (REGULATION (EC) No 1272/2008):

Not a hazardous substance or mixture.

Additional Labelling: EUH210.

Safety data sheet available on request.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3- Composition/information on ingredients

Mixtures: Mixture

- **Chemical name:** White mineral oil (petroleum)
- **Identifiers:**
CAS-No: 8042-47-5
EC-No: 232-455-8
Index-No: 01-2119487078-27-
Registration number: 0010
- **Classification:** Asp. Tox. 1; H304
- **Concentration (% w/w):** 90 - 100

For explanation of abbreviations see section 16.



4- First aid measures

Description of first aid measures

If inhaled

Move to fresh air.
Artificial respiration and/or oxygen may be necessary.
Seek medical advice.

In case of skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
Wash clothing before reuse.
Seek medical advice.

In case of eye contact:

Remove contact lenses.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Obtain medical attention.

If swallowed

Rinse mouth with water.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Never give anything by mouth to an unconscious person. Seek medical advice.

Most important symptoms and effects, both acute and delayed

Risks: First aider needs to protect himself.

Indication of any immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5- Firefighting measures

Extinguishing media

Suitable: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Not suitable: No information available.

Special hazards arising from the substance or mixture

Specific hazards during firefighting: Cool closed containers exposed to fire with water spray.

Hazardous combustion products: Carbon oxides (CO, CO₂), silicon oxides (SiO_x), smoke and irritating vapours as products of incomplete combustion.

Advice for firefighters

Further information: Prevent fire extinguishing water from contaminating surface water or the ground water system.

6- Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions:

Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Material can create slippery conditions.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.

Environmental precautions

Do not allow uncontrolled discharge of product into the environment.



Methods and material for containment and cleaning up

Methods for cleaning up: Prevent further leakage or spillage if safe to do so.

Remove all sources of ignition.

Soak up with inert absorbent material.

Non-sparking tools should be used.

Ensure adequate ventilation.

Contact the proper local authorities

Reference to other sections

For personal protection see section 8.

7- Handling and storage

Precautions for safe handling

Advice on safe handling:

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

Use only with adequate ventilation.

In case of insufficient ventilation, wear suitable respiratory equipment.

Avoid contact with skin, eyes and clothing.

Do not ingest.

Keep away from heat and sources of ignition.

Keep container closed when not in use.

Advice on protection against fire and explosion:

None known.

Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers:

Store in original container. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.

Specific end use(s)

Specific use(s): No data available.

8- Exposure controls/ personal protection

Control parameters

8-hour TLV-TWA of 5 mg/m³ recommended by manufacturer based on ACGIH TLV for mineral oil mists.

Consult local authorities for acceptable exposure limits.

Exposure controls

Engineering measures: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- **Eye/face protection:** Wear face-shield and protective suit for abnormal processing problems

- **Hand protection**

Material: neoprene, nitrile, polyvinyl alcohol (PVA), Viton®.

Remarks: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

- **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.

- **Respiratory protection:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on

known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

- **Filter type:** organic vapour filter.
- **Protective measures:** Wash contaminated clothing before re-use.

9- Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Viscous liquid.

Colour: Colourless to light yellow.

Odour: Mild petroleum oil like.

Odour Threshold: No data available.

Pour point: -18 °C

Boiling point/boiling range: No data available.

Flash point: 212 °C

Method: Pensky-Martens closed cup.

Fire Point: No data available.

Auto-Ignition Temperature: 354 °C

Evaporation rate: No data available.

Upper explosion limit / Upper flammability limit:

No data available.

Lower explosion limit / Lower flammability limit:

No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Relative density: No data available.

Density: 0.8681 kg/l (15 °C).

Solubility(ies)

Water solubility: insoluble.

Coeficiente de reparto noctanol/agua:

No data available.

Viscosity

Viscosity, kinematic:

37.1 cSt (40 °C)

5.9 cSt (100 °C)

Flammability: Low fire hazard. This material must be heated before ignition will occur.

Explosive properties: Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

Other information

No data available.

10- Stability and reactivity

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous reactions: Hazardous polymerisation does not occur. Stable under normal conditions.

Conditions to avoid: No data available.

Incompatible materials:

Materials to avoid: Reactive with oxidising agents, acids and alkalis.

Hazardous decomposition products:

May release COx, formaldehyde, smoke and irritating vapours when heated to decomposition.

11-Toxicological information

Information on hazard classes as in Regulation (EC) No 1272/2008

Information on likely routes of exposure:

- Eye contact
- Ingestion
- Inhalation
- Skin contact

ACUTE TOXICITY

Product:

- **Acute oral toxicity:** No data available.
- **Acute inhalation toxicity:** No data available.
- **Acute dermal toxicity:** No data available.

COMPONENTS:

Product/ingredient name	toxicity	Species	Dose	Exposure
White mineral oil (petroleum)	Acute oral toxicity	LD50 (Rat)	> 5,000 mg/kg	-
	Acute inhalation toxicity	CL50 (Rat)	> 5.2 mg/l	Exposure time: 4 h Test atmosphere: dust/mist
	Acute dermal toxicity	DL50 (Rabbit)	> 2,000 mg/kg	-

SKIN CORROSION/IRRITATION

Product:

- **Remarks:** No data available.

SERIOUS EYE DAMAGE/EYE IRRITATION

Product:

- **Remarks:** No data available.

RESPIRATORY OR SKIN SENSITISATION

Product:

- **Remarks:** No data available.

GERM CELL MUTAGENICITY

Product:

- **Remarks:** No data available.

CARCINOGENICITY

Carcinogenicity:

- **Remarks:** All components listed in Annex VI to which Note L applies, and contained in the product, have been shown to contain less than 3% DMSO extractables as measured by IP346..

REPRODUCTIVE TOXICITY

Product:

- **Remarks:** No data available.

STOT - SINGLE EXPOSURE

Product:

- **Remarks:** No data available.

STOT - REPEATED EXPOSURE

Product:

- **Remarks:** No data available.

■ **Information on other hazards**

ENDOCRINE DISRUPTING PROPERTIES

Product:

- **Assessment:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

■ **12- Ecological information**

Toxicity

PRODUCT

- **Toxicity to fish:** No data available.
- **Toxicity to daphnia and other aquatic invertebrates:** No data available.
- **Toxicity to algae/aquatic plants:** No data available.
- **Toxicity to microorganisms:** No data available.

COMPONENTES

Product/ingredient name	toxicity	Species	Dose	Exposure
White mineral oil (petroleum)	Toxicity to fish	NOEC (Fish):	> 100 mg/l	Exposure time: 96 h
	Toxicity to daphnia and other aquatic invertebrates	NOEC (Daphnia)	> 100 mg/l	Exposure time: 48 h
	Toxici	NOEC (algae)	> 100 mg/l	Exposure time: 72 h

■ Persistence and degradability

Product:

- **Biodegradability:** No data available.

■ Bioaccumulative potential

No data available.

■ Mobility in soil

No data available.

■ Results of PBT and vPvB assessment

PRODUCT:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

■ Endocrine disrupting properties

PRODUCT

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

■ Other adverse effects

No data available.

13- Disposal considerations

Métodos para el tratamiento de residuos

PRODUCT

Waste treatment methods:

The product should not be allowed to enter drains, water courses or the soil.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Waste must be classified and labelled prior to recycling or disposal.

Send to a licensed waste management company.

Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

14- Transport information

UN number or ID number

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

■ UN proper shipping name

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

■ Transport hazard class(es)

IMDG: Not regulated as a dangerous good.

IATA: Not regulated as a dangerous good.

■ Packing group

IMDG: Not regulated as a dangerous good.

IATA (Cargo): Not regulated as a dangerous good.

IATA (Passenger): Not regulated as a dangerous good.

■ Environmental hazards

Not regulated as a dangerous good.

■ Special precautions for user

Not applicable

■ Maritime transport in bulk according to IMO instruments

Remarks:

ADR: Not Regulated.

ADN: Not Regulated.

RID: Not Regulated.

15- Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable.

REACH - List of substances subject to authorisation (Annex XIV): Not applicable.

Water hazard class (Germany): WGK 1 slightly hazardous to water.

The components of this product are reported in the following inventories:

- **DSL:** On the inventory, or in compliance with the inventory.
- **TSCA:** All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
- **EINECS:** On the inventory, or in compliance with the inventory.
- **IECSC:** On the inventory, or in compliance with the inventory.
- **NZIoC:** On the inventory, or in compliance with the inventory.
- **HSNO:** HSNO: HSR002605, Lubricants (Low Hazard) Group Standard 2020.

■ Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

■ 16- Other information

FULL TEXT OF H-STATEMENTS

- **H304:** May be fatal if swallowed and enters airways.

FULL TEXT OF OTHER ABBREVIATIONS:

- **ADN** - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
- **ADR** - Agreement concerning the International Carriage of Dangerous Goods by Road;
- **AIIC** - Australian Inventory of Industrial Chemicals;
- **ASTM** - American Society for the Testing of Materials;
- **bw** - Body weight;
- **CLP** - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008;
- **CMR** - Carcinogen, Mutagen or Reproductive Toxicant;
- **DIN** - Standard of the German Institute for Standardisation;



- **DSL** - Domestic Substances List (Canada);
- **ECHA** - European Chemicals Agency;
- **EC-Number** - European Community number;
- **ECx** - Concentration associated with x% response;
- **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;
- **GHS** - Globally Harmonized System;
- **GLP** - Good Laboratory Practice;
- **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 Organization;
- **ISHL** - Industrial Safety and Health Law (Japan);
- **ISO** - International Organisation for Standardization;
- **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;
- **n.o.s.** - Not Otherwise Specified;
- **NO(A)EC** - No Observed (Adverse) Effect Concentration;
- **NO(A)EL** - No Observed (Adverse) Effect Level;
- **NOELR** - No Observable Effect Loading Rate;
- **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;
- **RID** - Regulations concerning the International Carriage of Dangerous Goods by Rail;
- **SADT** - Self-Accelerating Decomposition Temperature;
- **SDS** - Safety Data Sheet;
- **SVHC** - Substance of Very High Concern;
- **TCSI** - Taiwan Chemical Substance Inventory;
- **TECI** - Thailand Existing Chemicals Inventory;
- **TRGS** - Technical Rule for Hazardous Substances;
- **TSCA** - Toxic Substances Control Act (United States);
- **UN** - United Nations;
- **vPvB** - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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