

Scheda di sicurezza Oil for hybrid compressor 1234yf: 11.084YF ELKE S.r.I. VIA XXV APRILE 202 10042 NICHELINO (TO) ITALIA REA di TO: 987683 P.Iva 08613670010 Tel. n.. +39 011 9622412

# MATERIAL SAFETY DATA SHEET

## \* 1 - Preparation and company identification

Identification of the preparation Lubricant for hybrid compressor HFO 1234YF 250ML

11.084YF

Preparation use Lubricant for refrigeration and air conditioning systems. Company: ELKE S.r.I. Via XXV Aprile 202 10042 Nichelino (To) Italia.

Tel. n. +39 011 9622412

Emergency telephone

Centro Antiveleni Ospedale Niguarda Milano +39 02.66101029

Business references

Domenico Amosso info@elke-ac.com

#### 2 - Hazards identification

Not dangerous good.

health/environment

Main risks to

No particular risks in normal working conditions. We recommend, however, to keep

normal personal hygiene and to avoid frequent and prolonged contact. Use according to good working practice avoiding to disperse the product in the

environment.

Hazards

The substance is not regarded as hazardous according to the Directive

1272/2008/CE.

### 3 - Composition / Information on ingredients

The preparation does not contain any substance that require the declaration in accordance with regulamentation CE 1272/2008.

Components information

The content of DMSO extract, determined with the IP 346/92 method is lower than

3% in weight.

Chemical composition Synthetic lubricants based on polyol esters.

#### \* 4 - First aid measures

First aid measures required to treat the symptoms.

In case of exposure to high concentration of vapours or fogs move the person from Inhalation

contaminated area to well ventilated place. Seek medical assistance if necessary. If

you suspect inhalation, urgently go to hospital.

Contact with the skin Remove contaminated clothes and wash with soap and plenty of water. If irritation

persist, get medical attention.

Immediately flush eyes with plenty of water for a few minutes while keeping eyelids Contact with the eyes

open. Get medical attention.

Ingestion Do not induce vomit to avoid aspiration through the respiratory tract. Get medical

attention.



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## 5 - Fire-fighting measures

Fire-fighting equipment Nebulized water, carbon dioxide, alcohol-resistant foam, chemical extinguishing.

Contaminated water must be disposed of in accordance with official regulations.

Avoid breathing combustion fumes that, in case of fire, can form carbon monoxide

Inappropriate extinguishers Do not use direct water jets. Use water jets just to cool down surfaces exposed to

fire.

Specific dangers in case of exposition to the chemicals, its application products or

its combustion products or gases

fuel gases, carbon dioxide and unburnt hydrocarbon fumes.

Specific protective equipment Wear protective overalls with self-breathing equipment. for fire-fighting personnel

#### 6 - Accidental release measures

Person - related safety

precautions

Wear gloves, protecting clothes and glasses. In case of indoors significant spill avoid

to breathe vapours by ventilating the area or by wearing breath protecting

equipment. Remove possible ignition sources.

Environmental precautions Av

Avoid to disperse the product in ground, into sewers and into surface waters. If

necessary inform local authorities.

Decontamination procedures

In case of significant spillage, stem and transfer product to suitable containers. Spillage on ground: stem spilled product with soil or sand, clean up spilled product and dispose according to local regulations. Spillage in water: stem immediately the

spillage. Mechanically remove spilled product from the surface.

## 7 - Handling and storage

Handling Avoid direct contacts with the product. Avoid breathing aerosol or product mist

guaranteeing a suitable ventilation in working areas. Do not smoke and avoid any

contact with ignition sources. Keep containers closed when not used.

Storage Keep the product in original containers. Storage in a fresh place, away from heating

sources and direct sun exposition. Avoid to accumulate electrostatic charge. Keep closed and covered the containers to avoid infiltrations of rain. Maintain suitable

ventilation of the work place.

way according to the local regulations.

## \* 8 - Exposure controls / personal protection

According to data in our possession, any component presents no exposure limits in working place.

Exposure control Avoid the formation of hazes or aerosol and use engineering controls, ventilation or

localized aspiration if necessary.

Breathing equipment Not necessary under normal working conditions.

Hands and skin protection Wear gloves and protective overalls; change immediately contaminated clothes and

wash them thoroughly before use. We recommend to keep normal personal hygiene and of working clothes. Wear gloves only after having thoroughly washed your

hands.

Eyes protection Wear safety protective glasses where it is possible to be in contact with the product.



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# \* 9 - Physical and chemical properties

Physical status-: Mat white liquid

Colour-: white Odour-:

characteristic pH: Not applicable Water Solubility-: Insoluble Density at 15°Ckg/l: 0,957 kg/l Kinematic Viscosity at 40°CcSt: >240 Flash Point (C.O.C.)°C: -37 Pour Point°C:

## 10 - Stability and reactivity

Reactivity and materials to

avoid

Avoid contacts with strong acid, strong bases and oxidation agents. Avoid extreme

heat and high energy sources of ignition.

Stability Stable product in normal applications.

# \*11 - Toxicological information

Skin contact Frequent and prolonged contacts may irritate the skin and cause dermatitis.

It can cause burning sensation or transitory redness.

Eyes contact The product if swallowed can irritate the digestive apparatus and induce vomiting,

Oral toxicity cause nausea and diarrhea.

Long term exposure to the product mist can cause irritation to the respiratory system.

Inhalation

#### \* 12 - Ecological information

Mobility Not determined. Degradability Not determined. Accumulation Not determined.

**Ecotoxicity** In compliance with EEC Regulations the product is not regarded as hazardous to the

environment.

#### 13 - Disposal considerations

General information Do not dispel the environment. Comply with the current laws.

Disposal Avoid to disperse the product on ground, into sewers and surface waters. Discharge

the exhausted products and the containers through the authorized industries in compliance with the state and local regulations for disposal of this type of waste.

# 14 - Transport information

ADR-Classe: Not dangeorus IATA-Classe: Not dangeorus IMDG-Classe: Not dangeorus

# Not hazardous for the transport.

Oil for hybrid compressor 1234yf: 11.084YF Transport name

#### 15 - Regulatory information

Reference Laws This Safety Data Sheet complies with the Regulation 453/2010/EEC.

> Regulation (CE) 1272/2008 (GHS/CLP), D.E. 1999/45/CE, 2001/60/CE and related regulations on "Classification, labelling and packaging of substances and mixtures".

16 - Other information Refer also to local laws.

Relevant R and H phrases

Oil for hybrid compressor 1234yf: 11.084YF Revision n° 1 /R 21/05/2015

Page 3 of 4



Scheda di sicurezza
Oil for hybrid compressor 1234yf: 11.084YF
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Warning

The information presented in this Material Safety Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. The purpose of this data sheet is to inform and assume a correct technological use of the product. ELKE does not take any responsibility resulting from any damage or injury resulting from abnormal use.