

Scheda di sicurezza Lubrificante per compressori rotativi VIA XXV APRILE 202 10042 NICHELINO (TO) ITALIA REA di TO: 987683 P.Iva 08613670010

Material Safety Data Sheet

* 1 - Preparation and company identification

Identification of the preparation PAG OIL ISO 46 for HFO 1234YF 250ML

11.029YF

Preparation use Compressor lubricant.

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Business references Domenico Amosso info@elke-ac.com

* 2 - Hazards identification

Not dangerous good.

The substance is not regarded as hazardous according to the Directive Hazards

1272/2008/EEC.

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

normal personal hygiene and to avoid frequent and prolonged contact. Use health/environment

according to good working practice avoiding to disperse the product in the

environment.

Other hazards This product does not contain any PBT or vPvB substances.

* 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 base oil with additives.

4 - First aid measures

If exposed to high concentration of vapours and fogs move the person from Inhalation

contaminated area to well ventilated place. With labored breathing, provide oxygen. If respiratory arrest occurs make ventilation. If suspected inalathion, seek medical

assistance.

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

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.

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

attention.



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5 - Fire-fighting measures

Fire-fighting equipment Extinguish flames with foam, dry chemicals, CO2.

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

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

Avoid breathing combustion fumes that, in case of fire, can form carbon monoxide fuel gases, carbon dioxide, sulphur, phosphorus, nitrogen and unburnt hydrocarbon

compounds and other derivates potentially dangerous.

gases 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 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. Do not breathe 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.

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

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.

The containers contain product residues. Dispose the containers in safe ecological **Empty containers**

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-: Liquid Colour-: Colourless Odour-: **Typical**

pH: 5.5 - 7.5 (16.7% Isopropyl alcohol/water 10/6)

Water Solubility-: Partially soluble

Density at 15°Ckg/l: 0.990 Kinematic Viscosity at 40°CcSt: 48.2 Flash Point (C.O.C.)°C: 205 Pour Point°C: -39

Boiling pointhPa: Decompose before boiling

10 - Stability and reactivity

Conditions to avoid High temperature (>150°C) can cause decomposition with development of odorous

and toxic smoke.

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

Chronic toxicity Exposure to oil vapour that exceeds Professional Inhalation Limits can cause

respiratory system irritations.

LD50 skin (rabbit) > 2000 mg/kg (estimated). Frequent and continuous contacts Skin contact

could degrease skin and cause dermatitis.

Eyes contact It can cause light irritation.

LD50 (rats): > 2000 mg/kg (estimated). The product if ingested can irritate the Oral toxicity

digestive apparatus and induce vomiting, cause nausea and diarrhea.

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

* 12 - Ecological information

Mobility Logarithm of the coefficient of distribution ottanolo/water is considered to be < 3.

Degradability Not determined.

Accumulation For this product a low potential of bioconcentration is estimated.

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

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

PAG OIL 46 for HFO 1234YF 11.029YF Transport name

* 15 - Regulatory information

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

Regulation (CE) n.1907/2006 (REACH); Regulation (CE) n.1272/2008 (GHS/CLP); I

PAG ISO 46 1234YF

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ATP n.790/2009; II ATP n.86/2011; III ATP n.618/2012; IV ATP n.487/2013.

Refer also to local laws.

*16 - Other information

Relevant H phrases 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 S.r.l. company does not take any responsibility resulting from any damage or injury resulting from abnormal use.