

MATERIAL SAFETY DATA SHEET

1 - Preparation and company identification

Identification of the preparation Olio PAG 100 007935090670; 007935090720; 007950024510

Preparation use Lubricant for refrigeration and air conditioning systems.

Company ELKE S.A.S.

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2 - Hazards identification

Information None

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

1999/45/EEC.

Main risks to No particular risks in normal working conditions of the product. We recommend, health/environment however, to keep normal personal hygiene and to avoid frequent contacts and over

an extended period of time. Use according to good working practice avoiding to

dispel the product in the environment.

3 - Composition / Information on ingredients

The preparation does not contain any substance that falls into any class listed in Annex I of the Directive 67/548/EEC and later amendments.

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 are necessary for the preparation use

Inhalation In case of exposure to high concentration of oil mist, move into fresh air. If breathing

> is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If you suspect that there has been inhalation, urgently go to hospital with the patient.

Immediately flush eyes with large amounts of water and keep eyelids open for a few Contact with the eyes

minutes. Get prompt medical attention.

Contact with the skin Remove contaminated clothing. Wash thoroughly with soap and water.

Do not induce vomit to avoid sucking through the respiratory tract. Seek medical Ingestion

help.

5 - Fire-fighting measures

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

Contaminated firefighting water must be disposed of in accordance with official

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

regulations.

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

fuel gases, carbon dioxide and unburnt hydrocarbon fumes.

Specific dangers in case of

exposition to the chemicals,

its combustion products or

Specific protective equipment Wear protective overalls with self-breathing equipment.

for fire-fighting personnel

Page 1 of 3 17/12/2009



MATERIAL SAFETY DATA SHEET

6 - Accidental release measures

Person - related safety

precautions

Wear gloves and protective glasses. In case of spillage of considerable quantities into bordering place, avoid to breathe exhalations; air the environment or wear protective breathing apparatus. Remove any possible ignition sources.

Environmental precautions
Avoid to disperse and to drain the product on ground, into sewers and surface

waters. If necessary inform the relevant local authorities.

Decontamination procedures In case of significant amount of spilled product, control and transfer the product in

suitable containers. Spillage on ground: Control spilled product with earth or sand. Clean up spilled product and dispose according to local regulations. Spillage in water: Border immediately the spillage. Remove spilled product from the surface with

mechanical equipment.

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.

Storage Keep the product in originals 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.

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

way according to the local regulations.

8 - Exposure controls / personal protection

According to data in our possession, any component presents exposure limits in working place.

Breathing equipment Not necessary under normal working conditions. Keep oil hazes within the TLV-TWA

limit of 5 mg/m3. (A.G.C.I.H. 2000). Use masks with filters for organic vapours in

case of exposure superior to the fixed limits.

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.

Exposure control Avoid the formation of hazes or aerosol and use ventilation or localized aspiration if

necessary.

9 - Physical and chemical properties

Physical status-: Liquid
Colour-: Colourless
Odour: Light and typical
pH: Not determinated

Water Solubility-: Insoluble(0,1%). Soluble in organic solvent.

Density at 15°Ckg/l: 0,960 Kinematic Viscosity at 40°CcSt: 99,2 Flash Point (C.O.C.)°C: 254 Pour Point°C: -36

10 - Stability and reactivity

Reactivity 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.

17/12/2009 Page 2 of 3



MATERIAL SAFETY DATA SHEET

11 - Toxicological information

Oral toxicity The product if ingested can irritate the digestive apparatus and induce vomiting,

cause nausea and diarrhea.

Skin contact Frequent and prolonged contacts may parche and irritate the skin and cause

dermatitis.

Eyes contact Eyes contact causes eyes irritations.

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

12 - Ecological information

Mobility Not determined.

Persistence and Not determined.

Accumulation Not determined.

Ecotoxicity Specific dates not available.

13 - Disposal considerations

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

Disposal 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

Not hazardous for the transport.

Transport name OLIO PAG 100 007935090670; 007935090720; 007950024510

15 - Regulatory information

Hazard symbols None

R Phrases None S Phrases None

16 - Other information

Relevant R 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.A.S. does not take any responsibility resulting from any

damage or injury resulting from abnormal use.

Reference laws This Safety Data Sheet complies with the Regulation 1999/45/EEC, 2006/8/EEC and

is in compliance with the regulations (EEC) 1907/2006 (REACH).

17/12/2009 Page 3 of 3