



## SAFETY DATA SHEET

PAG OIL ISO 46 for R744(CO2)

Page: 1

Compilation date: 24/07/2014

Revision date: 09/08/2017

Revision No: 3.0

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: PAG OIL ISO 46 for R744(CO2)

Cod.11.405 – 11.406

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Lubricating oil.

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

Company name: ELKE S.r.l.

Via XXV Aprile 202

10042 Nichelino (To) Italia.

Tel: +39 011 9622412

Email: info@elke-ac.com

#### 1.4. Emergency telephone number

Emergency tel: Centro Antiveleni Ospedale Niguarda Milano +39 02.66101029

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

#### 2.2. Label elements

Label elements: This product has no label elements.

#### 2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

### Section 3: Composition/information on ingredients

#### 3.1. Substances

Chemical identity: PAG OIL ISO 46 for R744(CO2)

### Section 4: First aid measures

#### 4.1. Description of first aid measures

**Skin contact:** Wash immediately with plenty of soap and water.

**Eye contact:** Flush the eye immediately with water. If discomfort persists, obtain medical attention.

**Ingestion:** If swallowed, do not induce vomiting. Never administer anything by mouth if a casualty is losing consciousness, is unconscious or is convulsing. Wash out mouth with water. If rapid recovery does not occur, obtain medical attention.

[cont...]

## SAFETY DATA SHEET

PAG OIL ISO 46 for R744(CO2)

Page: 2

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact:** None known.

**Eye contact:** None known.

**Ingestion:** None known.

**Inhalation:** None known.

**Delayed / immediate effects:** None known.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Immediate / special treatment:** None known.

## Section 5: Fire-fighting measures

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Water spray. Carbon

### 5.1. Extinguishing media

dioxide. Alcohol resistant foam. Dry chemical powder. Use water spray to cool containers.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## Section 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Turn leaking containers leak-side up to prevent the escape of liquid.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 13 of SDS.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** Ensure there is sufficient ventilation of the area.

[cont...]

# SAFETY DATA SHEET

PAG OIL ISO 46 for R744(CO2)

Page: 3

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep container tightly closed. Store in a cool, well ventilated area. Avoid incompatible materials and conditions - see section 10 of SDS.

**Suitable packaging:** We recommend storing in original packaging. Stainless steel.

## 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Workplace exposure limits:** No data available.

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Impermeable gloves. Always seek advice from glove supplier.

**Eye protection:** Safety glasses with side-shields. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Colourless/pale yellow.

**Odour:** Characteristic odour

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Insoluble

**Boiling point/range°C:** No data available.

**Flammability limits %: lower:** No data available.

**Flash point°C:** 210 (COC)

**Autoflammability°C:** No data available.

**Relative density:** No data available.

**VOC g/l:** No data available.

**Melting point/range°C:** No data available.

**upper:** No data available.

**Part.coeff. n-octanol/water:** No data available.

**Vapour pressure:** No data available.

**pH:** No data available.

[cont...]

## SAFETY DATA SHEET

PAG OIL ISO 46 for R744(CO2)

Page: 4

### 9.2. Other information

**Other information:** Viscosity @ 40°C (ASTM D445): 45 cSt (typical). Specific gravity g/cc @ 15°C (ASTM 1298): 0.9893 (typical). Pour point °C: -52 (typical).

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

**Conditions to avoid:** Sources of ignition. Flames. Heat.

### 10.5. Incompatible materials

**Materials to avoid:** Strong oxidising agents. Strong acids.

### 10.6. Hazardous decomposition products

**Haz. decomp. products:** In combustion emits toxic fumes.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Toxicity values:** No data available.

### Symptoms / routes of exposure

**Skin contact:** None known.

**Eye contact:** None known.

**Ingestion:** None known.

**Inhalation:** None known.

**Delayed / immediate effects:** None known.

**Other information:** None known.

## Section 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity values:** No data available.

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

[cont...]

## SAFETY DATA SHEET

PAG OIL ISO 46 for R744(CO2)

Page: 5

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No bioaccumulation potential.

### 12.4. Mobility in soil

**Mobility:** Readily absorbed into soil.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** \* None known.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Dispose of as normal industrial waste.

**Recovery operations:** Storage of waste pending any of the other recovery operations (excluding temporary storage, pending collection, on the site where the waste is produced).

**Waste code number:** 13 02 06

**Disposal of packaging:** Dispose of as normal industrial waste.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

### 14.1. UN number

Not classified as dangerous in the meaning of transport regulations.

### 14.2. UN proper shipping name

N.A.

### 14.3. Transport hazard class(es) N.A.

### 14.4. Packing group

N.A.

### 14.5. Environmental hazards

Marine pollutant: No

N.A.

### 14.6. Special precautions for user

N.A.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

## Section 15: Regulatory information

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

**Specific regulations:** Global Chemical Inventories: EC (EINECS) - All components listed or exempt. US (TSCA) - All components listed or exempt. Canada (DSL) - All components listed or exempt. Australia (AICS) - All components listed or exempt. Philippines (PICCS) - All components listed or exempt. China (IECSC) - All components listed or exempt.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

[cont...]

## SAFETY DATA SHEET

PAG OIL ISO 46 for R744(CO2)

Page: 6

### Section 16: Other information

#### Other information

**Other information:** \* This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and

## **SAFETY DATA SHEET**

PAG OIL ISO 46 for R744(CO2)

**Page: 7**

shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.