Material Safety Data Sheet

* 1 - Preparation and company identification

Identification of the preparation PAO OIL ISO 68 + UV DYE 1L
11.044

Preparation use	Lubricant for refrigeration and air conditioning systems.
Company	ELKE S.r.l. 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.

Hazards	The substance is not regarded as hazardous according to the Directive 1272/2008/EEC.
Main risks to health/environment	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.
Other hazards	This product does not contain any PBT or vPvB substances.

* 3 - Composition / Information on ingredients

Ingredients composition

No. 1272/2008/CE

Poly alpha olefin <=100.00%
No. EU: 500-183-1 No. CAS: 68037-01-4

Please refer to section 16 for more information about H phrases.

Components information	The content of DMSO extract, determined with the IP 346/92 method is lower than 3% in weight.
Chemical composition	Synthetic base oils.

4 - First aid measures

Inhalation	In case of exposure to high concentration of vapours or fogs move the person from 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.
Contact with the eyes	Immediately flush eyes with plenty of water for a few minutes while keeping eyelids 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	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 fire.
Specific dangers in case of exposition to the chemicals, its combustion products or gases	Avoid breathing combustion fumes that, in case of fire, can form carbon monoxide fuel gases, carbon dioxide and unburnt hydrocarbon fumes.
Specific protective equipment for fire-fighting personnel	Wear protective overalls with self-breathing equipment.

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 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.
Empty containers	The containers contain product residues. Dispose the containers in safe ecological way according to the local regulations.

8 - Exposure controls / personal protection

Exposure borderline values

	TLV - TWA (1)		TLV - STEL (2)	
	ppm	mg/m ^{3}	ppm	mg/m ^{3}
Poly alpha olefin		5		10

(1) Long exposure limits
(2) Short exposure limits

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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. Keep oil hazes within the TLV-TWA limit of 5 mg/m3. (A.C.G.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.

9 - Physical and chemical properties

Physical status- :	Liquid
Colour- :	Green
Odour- :	Typical
pH :	Not applicable
Water Solubility- :	Insoluble
Density at 15°Ckg/l :	0,840
Kinematic Viscosity at 40°CcSt :	69
Flash Point (C.O.C.)°C :	>240
Pour Point°C :	<-45

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.

11 - Toxicological information

Chronic toxicity	Exposure to oil vapour that exceeds Professional Inhalation Limits can cause respiratory system irritations.
Skin contact	LD50 skin (rabbit) > 2000 mg/kg (estimated). Frequent and continuous contacts could degrease skin and cause dermatitis.
Eyes contact	It can cause light irritation.
Oral toxicity	LD50 (rats): > 2000 mg/kg (estimated). The product if ingested can irritate the 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	The product keeps afloat.
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.

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14 - Transport information

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

Not hazardous for the transport.

Transport name PAO OIL ISO 68 + UV 11.044

* 15 - Regulatory information

Reference Laws

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

Regulation (CE) n.1907/2006 (REACH); Regulation (CE) n.1272/2008 (GHS/CLP); I 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. does not take any responsibility resulting from any damage or injury resulting from abnormal use.