

ZOH

SECTION 1	IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF COMPANY/UNDERTAKING
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1.1 Product Identifier	ZOH
Product Code	ZOH/*
Type of product	Mixture
1.2 Relevant identified uses of the substance or mixture and uses advised against	Hydraulic oil. Do not use in any other application.
1.3 Company	E.P.P. Euro Press Pack SPA Via M. Disma, 87 16042 Carasco (GE)
1.4 Emergency Telephone Number	+39 0185 35271 (Monday - Friday 08.30 - 17.00)

SECTION 2	HAZARD IDENTIFICATION
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2.1 Classification of the substance or mixture	Not classified as hazardous in accordance with CLP (EC 1272/2008) and DPD (1999/45/EC)
2.2 Label Elements	No labelling required (P102) Keep out of reach of children (P280) Wear protective gloves/protective clothing/eye protection/face protection
2.3 Other Hazards	Not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 DMSO test.

SECTION 3	COMPOSITION/ INFORMATION ON INGREDIENTS
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3.2 Mixtures

Component	CE Number	REACH Reg. No.	Classification DSD	Classification CLP	%
Mineral Oil					≥95
Benzenamine (additive)	272-940-1	N/D	R52/R53	Aquatic Chronic 3, H412	0.05 min 0.149 max
Zinc dialkyldithiophosphate (additive)	224-235-5	01-2119493635-27	Xi, N R41, R51/53	Eye Dam. 1, H318 Aquatic Chronic 2, H411	0.19 min 0.99 max
Reaction mass of isomers of: C7-9-alkyl 3-propionate (additive)	406-040-9	N/D	R53	Aquatic Chronic 4, H413	0.05 min 0.149 max

SECTION 4	FIRST AID MEASURES
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- 4.1 Description of first aid measures**
- Inhalation** If inhalation of mists, fumes or vapour causes irritation to the nose or throat, or coughing, remove to fresh air. If symptoms persist obtain medical advice.
- Eyes** Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.
- Skin** Wash skin thoroughly with soap and water as soon as reasonably practicable. Remove heavily contaminated clothing and wash underlying skin.
- Ingestion** If contamination of the mouth occurs, wash out thoroughly with water. Except as a deliberate act, the ingestion of large amounts of product is unlikely. If it should occur, do not induce vomiting; obtain medical advice.
- 4.2 Most important symptoms and effects, both acute and delayed** No ill effects known
- 4.3 Indication of immediate medical attention and special treatment needed, if necessary** Eye contact: immediately wash out with plenty of water

SECTION 5	FIRE-FIGHTING MEASURES
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- 5.1 Extinguishing media** Foam, carbon dioxide or dry chemical. Water can be used to cool and protect exposed material.
- 5.2 Specific hazards arising from the substance or mixture** Toxic fumes, gases or vapours may be evolved on burning. Vapours may be heavier than air and may travel along the ground to a distant ignition source and flash back. See Stability and Reactivity, Section 10 of this Safety Data Sheet.
- 5.3 Advice for fire-fighters** Wear self-contained breathing apparatus. Water may cause splattering.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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- 6.1 Personal precautions, protective equipment and emergency procedures** Immediately evacuate all personnel from danger area. Wear Personal Protective Equipment. Eliminate all sources of heat, sparks, pilot lights, static electricity and open flames. Spilled material may make surfaces slippery.
- 6.2 Environmental precautions** Protect drains from potential spills to minimise contamination. Do not wash product into drainage system. In the case of large spills contact the appropriate authorities. In the case of spillage on water, prevent the spread of product by the use of suitable barrier equipment. Recover product from the surface. Protect environmentally sensitive areas and water supplies.
- 6.3 Methods and material for containment and cleaning up** Absorb into dry earth or sand. Protect drains using drain covers. Dispose of as hazardous waste.
- 6.4 Reference to other sections** Personal protective equipment: See section 8

SECTION 7	HANDLING AND STORAGE
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- 7.1 Precautions for safe handling** Avoid contact with eyes. If splashing is likely to occur wear a full face visor or chemical goggles as appropriate. Avoid frequent or prolonged skin contact with fresh or used product. Good working practices, high standards of personal hygiene and plant cleanliness must be maintained at all times. Wash hands thoroughly after contact. Use disposable cloths and discard when soiled. Do not put soiled cloths into pockets. Use a suitable barrier cream at regular intervals.
- 7.2 Conditions for safe storage, including any incompatibilities** Keep out of the reach of children. Store under cover away from heat and sources of ignition.
- 7.3 Specific end use(s)** Intended for use as a hydraulic oil.

SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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8.1 Control parameters				
Country	Substance	Long Term (8 Hours TWA)	Short Term (15 Mins)	
Italy – Portugal – USA ACGIH	Fog of mineral oil, refined	5 mg/m ³	10 mg/m ³	

8.2 Exposure controls

Use local exhaust ventilation to control mists or vapours.

Hand Protection: Nitrile or neoprene protective gloves

Eye Protection: Safety glasses

Skin Protection: Protective clothing

Hygiene Measures: Wash thoroughly after handling this product

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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9.1 Information on basic physical and chemical properties Does not constitute a specification

Denomination		ZOH
Typical Values		
	Units	
Appearance		Amber Liquid
Odour		Oily
Odour Threshold		No data available
pH		Not applicable
Pour point/range	°C	-30
Initial boiling point and range	°C	≥200
Flash point (COC)	°C	≥185
Flammability		No data available
Upper/lower flammability or explosive limits		LEL ≥ 45 g/m ³
Vapour pressure	hPa (20°C)	≤ 0.1
Relative density	kg/dm ³	0.876 @ 20°C
Solubility		Insoluble
- water		Soluble
- Fat/solvents		Not applicable
Partition coefficient n-octanol/water	Log Pow	≥ 300
Autoignition temperature	°C	≥ 300
Decomposition temperature		No data available
Viscosity	mm ² /s	32.02 @ 40°C
Evaporation rate		Trascurable
Vapour density		Not applicable
Explosive properties		None
Oxidising properties		None

9.2 Other Information VOC = 0 %

SECTION 10	STABILITY AND REACTIVITY
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10.1 Reactivity	No dangerous reactions known
10.2 Chemical stability	Stable under normal conditions of use
10.3 Possibility of hazardous reactions	No hazardous reactions under normal conditions of use. The contact with strong oxidants can create danger of fire. A mixture with nitrates and strong oxidants can create explosive masses.
10.4 Conditions to avoid	Avoid high temperatures and strong oxidising agents. Avoid electrostatic charge in the area of use.
10.5 Incompatible materials	Avoid contact with strong oxidising agents
10.6 Hazardous decomposition products	Thermal decomposition products will vary with conditions. Incomplete combustion will generate smoke, carbon dioxide and hazardous gases, including carbon monoxide. In uncommon cases the product can degrade in small quantities of sulfur compounds, included H ₂ S.

SECTION 11	TOXICOLOGICAL INFORMATION
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11.1 Information on toxicological effects

Acute Toxicity	
- Oral	No toxic components present at levels to cause classification.
- Inhalation	No toxic components present at levels to cause classification.
- Dermal	No toxic components present at levels to cause classification.

Corrosivity/Irritation

- Eye No components present that are classified as eye irritants.
- Skin No components present that are classified as skin irritants but may cause skin irritation due to de-fatting effect on skin.

-Respiratory Tract Sensitisation

- Skin No evidence of sensitisation effects.
- Respiratory No evidence of sensitisation effects.

Repeated-dose Toxicity

- No data available.
- No evidence of mutagenicity.
- No evidence of carcinogenicity.
- No evidence of reproductive toxicity.

SECTION 12 ECOLOGICAL INFORMATION

- 12.1 Toxicity** Not classified as dangerous for the environment. No ecotoxic chemicals present. In the water the damage for the animals is mechanic because the product is not soluble in water and it creates a film on the surface.
- 12.2 Persistence and Degradability** Inherently biodegradable, moderately persistent.
- 12.3 Bioaccumulative Potential** No data available.
- 12.4 Mobility in Soil** Spillages may penetrate the soil causing ground water contamination. Non-volatile.
- 12.5 Results of PBT and vPvB Assessment** No PBT or vPvB chemicals present.
- 12.6 Other Adverse Effects** None known.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods

Where possible, arrange for product to be recycled.
Dispose of via an authorised person/ licensed waste disposal contractor in accordance with local regulations.
Incineration may be carried out under controlled conditions provided that local regulations for emissions are met.

SECTION 14 TRANSPORT INFORMATION

Not classified as hazardous for transport (ADR, RID, UN , IMO, IATA/ICAO).

SECTION 15 REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** Reg. (CE) n. 1907/2006 (REACH);
Reg. (CE) n. 1272/2008;
Directive 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE;
Directive 98/24/CE;
Directive 92/85/CE;
Directive 96/82/CE, 2003/105/CE;
Directive 2004/42/CE;
Labeling directive 67/548/CEE 1999/45/CE.
- 15.2 Chemical Safety Assessment** No formal chemical safety assessment has been carried out.

SECTION 16 OTHER INFORMATION

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E.P.P. EURO PRESS PACK SPA