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Alfa Laval Hydraulikolja ISO 68

1. Product and Company identification

Trade Name:	Supplier:
Alfa Laval Hydraulikolja ISO 68	ALFA LAVAL Tumba AB
	Hans Stahles väg
Product Type:	SE-147 80 Tumba
Hydraulic oil	Sweden
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Emergency number: +44 18 65 407 333	

2. Hazard Identification

Health	Product is not classified as dangerous according to valid legislation.
Environment	The product is not classified as dangerous for the environment. However the product may form an oil film leading to deoxygenation of water and possible harmful effects on aquatic life.

3. Composition and Information on the Components

See section 16 for explanation to R-phrases.

Hazardous ingredient	Weight-%	CAS No	EC No.	Classification
Mineral oil	60-100	-	-	-

*EC-N°: 309-877-7 ; 265-169-7 ; 278-012-2 ; 265-157-1 (IP 346 DMSO extract < 3%). Contain either Alkylated phenol, Butylated phenol or Zinc dialkyldithiophosphate, never none of the three substances at the same time.

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4. First Aid Measurements

First aid – Inhalation	If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or symptoms persist.
First aid – Skin contact	Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists. High pressure injection of material into skin, if not properly treated, can cause severe injury. Most damage occurs during first few hours. Failure to de-bridge the wound of all residual material can result in disfigurement, loss of function, or even require amputation of the affected area. The extent of the injury cannot be determined by examining the wound. X-ray may reveal the presence of gas in tendon sheaths or soft tissue.
First aid – Eye contact	Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.
First aid – Ingestion	Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious or convulsing person.

5. Fire Fighting Measurements

Extinguishing media	Use water fog, dry powder, foam or carbon dioxide. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water fog to disperse the vapours and to provide protection for personnel attempting to stop the leak.
Improper Extinguishing media	Water jet.
Special hazards of product	Irritating fumes. The product is combustible despite a high flash point.
Protective equipment for fire fighting	The nature of special protective equipment required will depend upon the size of the fire, the degree of confinement of the fire and the natural ventilation available. Fire-resistant clothing and self-contained breathing apparatus is recommended for fires in confined spaces and poorly-ventilated areas. Full fire-proof clothing is recommended for any large fires involving this product. In case of fire - always call the fire brigade. Small fires, such as those capable of being fought with a hand-held extinguisher, can normally be fought by a person who has received instruction on the hazards of flammable liquid fires. Fires that are beyond that stage should only be tackled by people who have received hands-on training. Ensure escape path is available.

6. Accidental Release Measures

Procedures in case of accidental release or leakage	Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent liquid or runoff from entering waterways and sewer systems.
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7. Handling and Storage

Handling	Avoid prolonged or repeated contact with skin. Avoid breathing vapours.
Storage	Keep containers closed when not in use. Store at ambient temperature.
Advice for safe handling	Containers / barrels may not be pressure, cut up, heated or welded. Also applies to empty containers. Empty containers may contain residues of the product and may pressurization explode. Reuse containers, but not cleaning, reconditioning or discharge as directed. Static electricity may accumulate and cause a dangerous situation at handling of this product. Bonding and grounding may be required to reduce risk, but further measures may be needed. Review all operations involving the risk of alstarnde and accumulation of static electricity and / or flammable atmosphere (including the filling of tanks and containers, spray of filling, tank cleaning, sampling, measurement, filtering, mixing, stirring), and take appropriate action.

8. Exposure Control / Personal Protection

Exposure limit for the product	Oil mist, mineral (excluding metalworking fluids) TWA: 5 mg/m ³ ; STEL: 10 mg/m ³ .
Respiratory protection	Airborne concentrations should be kept to lowest levels possible. If vapour or mist is generated, use approved respirator as appropriate. Supplied air respiratory protection should be used for cleaning large spills or upon entry into tanks, vessels, or other confined spaces.
Hand and skin protection	Exposed employees should exercise reasonable personal cleanliness. This includes cleansing exposed skin areas several times daily with soap and water, and laundering or dry cleaning soiled work clothing.
Eye protection	Chemical type goggles or face shield recommended to prevent eye contact.

9. Physical and Chemical Properties

Appearance	Clear light brown liquid.
Odour	Mineral oil.
Flash point	Min 200°C, (ASTM D92).
Relative density	0.877 - 0.883 kg/L @ 15 °C.
Viscosity	Min 64 mm ² /s @ 40 °C.

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10. Stability and Reactivity

Materials to avoid	Strong oxidising agents.
Hazardous decomposition products	Oxides of carbon, aldehydes and ketones.

11. Toxicological Information

Inhalation	High concentrations of vapours or mist are likely to be irritating to the respiratory tract and may cause nausea, dizziness, headaches and drowsiness.
Skin contact	Slightly irritating to the skin. Prolonged contact, as with clothing wetted with material, may cause defatting of skin or irritation, seen as local redness with possible mild discomfort.
Eye contact	Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.
Ingestion	Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhoea.
Chronic	Repeated skin contact may cause a persistent irritation or dermatitis.

12. Eco-toxicological Information

Mobility	Spillages may penetrate the soil causing ground water contamination.
Persistence and degradability	According to EC criteria: not readily biodegradable.
Potential to bioaccumulate	Considered unlikely to bioaccumulate.
Aquatic toxicity	Not classified as toxic.
Remarks	Believed not to represent a long-term danger to the aquatic environment. May form an oil film leading to deoxygenation of water and possible harmful effects on aquatic life.

13. Disposal

Dispose in accordance with local laws and regulations governing disposal of waste oil.
EWC-No: 13 01 10

14. Transport Information

Not dangerous goods with regards to transport regulations.

15. Regulatory Information

Not classified.

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16. Other Information

Important changes have been made in section: 1, 2, 3, 5, 7, 8 and 9.

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