

## Material safety data sheet

Trade name: **Swd Turbinol LTD****1. Identification of the substance / preparation and of the company / undertaking**

Identification of the Product  
 Trade name Swd Turbinol LTD  
 Type of Product Turbine-oil, ISO VG 10, 22, 32, 46, 68,100 and 150

Firmenbezeichnung SWD Lubricants GmbH & Co KG  
 Am Schlütershof 26  
 47059 Duisburg  
 Product-management Mr. P. Fritsch  
 Tel: 0203 / 31919 400 Fax: 0203 / 34665 40

**2. Composition / Information of ingredients**

Chemical characterisation Preparation of refined mineral oil and Additives

Substances presenting a health hazard

Components	Symbole	Risk-phrases	Wt %	EINECS-No
Baseoil (Crudeoil) C20 – C50		DMSO Extract < 3%	> 95	276-738-4

**3. Hazard Identifikation**

Dangerous substances No substances above the limit values

Main hazards On prolonged skin contact it may cause irritations.

The components and the product may be considered not to be essentially dangerous under normal conditions of use.

Environmental hazards When appropriately and responsibly handled, the product should not be dangerous for the environment.  
 In case of spillage or inappropriate use, it may however impair water and soil properties.

**4. First-aid measures**

Route of exposure  
 – Inhalation In case of inhalation of small quantities, no important effect is observed.  
 Inhalation of aerosols may cause mild irritation of the throat.  
 Remove affected person to fresh air.  
 Get medical advice if sensation of shortness of breath occurs after inhalation of high concentration of aerosols.

– Skin contact Change contaminated clothing immediately.  
 Wash skin as soon as possible with soap and water.

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In case of skin injury from high-pressure equipment, there is a risk of product injection under the skin. Injured must therefore be sent to a hospital, even there are few or no symptoms.

- Eye contact  
Flush immediately with plenty of water, holding eyelids open, for at least 15 minutes.
- Ingestion  
Do not induce vomiting. Risk of pulmonary irritation of the lung. Possible risk of vomiting and diarrhoea.

Seek medical advice immediately

### 5. Fire-fighting measures

Fireclass	B
Technical measures	Evacuate non-essential personnel. Keep tankage cool by continuous spraying with water.
Suitable extinguishing media	Carbon dioxide, dry chemicals, foam.
Unsuitable extinguishing media	Do not use water jets in early stages of extinguishing fire since they could help to spread the flames.
Combustion products	Combustion forms: carbon mono- and dioxide and cracking products. Their inhalation is likely to be harmful.
Protective equipment for fire-fighters	The fire brigade shall wear suitable breathing equipment.
Protective measures	Do not heat above the flashpoint and do not build oil mist.

### 6. Accidental release measures

Personal precautions	Remove sources of ignition. No smoking. Ventilate the working place thoroughly. Avoid contact with skin and eyes and inhalation. Wear suitable breathing equipment in case of exposure to vapour and fumes
Environmental precautions	If possible stop spill at the source. Take up small spills with chemical absorbent. Avoid discharge of the material in a sewer or cause a ground contamination. Report large spills direct to the authorities.

### 7. Handling and storage

Handling	Avoid producing or diffusing oil mist in the air. Store away from heating sources. Avoid electrical build up with connecting to earth. Avoid contact with flames and sparks.
Storage	Ventilate work places thoroughly. Store out of sunshine or other sources of radiation. Use only containers, joints, pipes etc.. made in a material suitable for use with hydrocarbons.

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Obey the water protectiv regulation for handling and storage of water endangering products ( in Germany VwVwS)

### 8. Exposure controls and personal protection

Exposure controls	For „ mineral oil mist“ a level of 5 mg/m <sup>3</sup> in atmosphere is recommended (ACGIH – TLV – 8 h TWA) or 10 mg/m <sup>3</sup> ( ACGIH – TLV 15 min STEL )
Recommended monitoring	DGMK, Nr. 21A (1987)
TA Luft Kl. III	50 mg/m <sup>3</sup> at mass-stream of 0,5 kg/h or more.
Personal protection	When exposure is likely, protective clothing must be worn
Skin protection	Oil resistant gloves (recommended material: Nitrile, Neopren) During use in engines, contamination with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermitted skin contact with used motor oils is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.
Breathing protection	Wear suitable breathing equipment in areas with poor ventilation and noticeable fumes and fogs.
Eye protection	Goggles /spectacles
Industrial hygiene	Do not store near food products Do not wipe hands with clothes or rags which have been used for Cleaning. Remove all contaminated clothing immediately. Use disposable “ wipes” rather than rags or cotton waste. Never put oil-contaminated material or tools into pocket.

### 9. Physical and chemical properties

Physical state at 20°C	liquid
Colour	yellow to amber
Odour	oily
Pour point	- 9 to -15 °C
Initial boiling point	not determined
Final boiling point	not determined
Flashpoint	> 200 °C
Thermal decomposition	> 350 °C
Ignition temperature	230 °C
Behaviour with water at 20°C	non miscible
Explosion values	(oil mist or thermal treatment) upper 6,5 Vol% lower 0,6 Vol%
Vapour pressure	not determined
Density	870 - 885 kg/m <sup>3</sup> at 15 °C

### 10. Stability and reactivity

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Stability Decomposition products	Stable under normal operating conditions With oxygen forms: Carbon dioxide, water. With poor oxygen forms: Carbon monoxide, cracking products.
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### 11. Toxicological information

Rat oral LD 50	> 2000 mg/kg
Ingestion	In case of small quantities, no important effect is observed. In case of ingestion of larger amounts: abdominal pain, diarrhoea, ...
Inhalation	Vapour or aerosols may cause irritation of upper respiratory tract.
Skin contact	Prolonged or frequent contacts may cause skin irritation.
Eye contact	Mildly irritating
- Carcenogenicity	The Product is not considered to be a carcinogen. The oil-components contains less than 3 % DMSO extract measured by IP 346. It needs not to be classified as T, R45. (nota L)
- Sensitation	The product contains no sensitizing agents in the range from 0.1 to 1.0 Wt %
- Mutagenic	The product is not considered to be a mutagen.
- Reproductiv toxicity	The product is not considered to be a teratogen.

### 12. Angaben zur Ökologie

Mobility	
- Air	There is a slow loss by evaporation.
- Soil	Because of its physico-chemical properties the product has generally low soil mobility.
- Water	The product is in general not water soluble. The product spreads out on the surface of the water. A small fraction of the constituents will be dissolved.
Persistence and degradability	The product is easily knocked down from a water phase by a mechanical separator.
Biodegradation	not readily bio gradable
Bio accumulative potential	no information available
Log P n octano/water at 20 °C	> 6 not relevant for aquatic toxicity (Concawe product dossier)
Ecotoxicity	no information available

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Trade name: **Swd Turbinol LTD****13. Disposal considerations**

Disposal	The product is considered as industrial waste. Dispose in a safe manner in accordance with the local/ national regulations.
EC-Waste No.	13 02 05 (EC-Waste-Catalog)

**14. Transportation information**

ADR/RID	Not restricted for transport
ADNR	Not restricted for transport
IMO-IMDG	Not restricted for transport
ICAO/ IATA	Not restricted for transport
	Not classified as dangerous good in according to transportation rules.

**15. Regulatory Information**

Labelling and Classification preparations)	Not classified according to EEC directives 67/584/EEC (dangerous substances) and 88/379/EEC (dangerous
Symbols	none
R-Sentences	none
S-Sentences	none
	This product contains less than 3 % DMSO extract as measured by IP 346; it needs not to be classified as T, R45: " May cause cancer". (Nota L)
Germany Wassergefährdungsklasse	WGK 2 – water endangering Classification in accordance to the German regulation of water endangering substances (VwVwS)

**16. Other Information**

Further information	During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermitted skin contact with used motor oils is not expected to have serious effects in humans, if the oil is thoroughly removed by washing with soap and water.
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**Important:**

The information in this Data Sheet applies only to the product designated herein and is based on our experience and on the data available to us at the time of its issue and is accurate to the best of our knowledge.

The customer is strongly advised to observe and ensure that all employees and customers observe all directions contained herein.

However, no warranty is made or implied that the information is accurate or complete and no liability will be accepted whatsoever arising out of the use of the information or the products designated herein.

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