

**Safety Data Sheet according to Regulation (EC) No.  
1907/2006 (REACH)**

Printed 12.03.2009  
Revision 16.12.2008 (GB) Version 1.0  
SRS Wiolan HG 46



**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Name of product	SRS Wiolan HG 46	<b>349001 OIL</b>
Manufacturer/distributor	SRS Schmierstoff Vertrieb GmbH Neuenkirchener Straße 8, D-48499 Salzbergen Postbox 11 65, D-48497 Salzbergen Phone 05976 - 945-0 E-Mail Daniela.Heber@hansen-rosenthal.de	
Advice	Abt. Produktsicherheit; Dipl. Ing. Daniela Heber Phone 040-78110820	
Emergency advice	Gift-Informationszentrum Nord (Göttingen) Phone 0551-19240	

**2. HAZARDS IDENTIFICATION**

Special hazards information for humans and environment  
Keine gefährliche Zubereitung im Sinne der Richtlinie 1999/45/EG.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization  
Highly refined mineral oil, with additives

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
		Aminalz eines Phosphorsäureesters	< 0,2	N R51/53

**4. FIRST AID MEASURES**

**General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off immediately with soap and water.  
Consult a doctor if skin irritation persists.

**In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Aspirationsgefahr  
Do not induce vomiting.  
Call for a doctor immediately.

**Physician's information / possible dangers**

In case of swallowing or vomiting of the melted product there is danger of penetration into the lungs.

**Treatment (Advice to doctor)**

Treat symptoms.

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**5. FIRE-FIGHTING MEASURES**

## Suitable extinguishing media

Foam  
Dry powder  
Carbon dioxide  
sand  
Water spray jet  
water mist

Extinguishing media which must not be used for safety reasons  
Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Soot and other organic products.

Fire gas of organic material has to be classed invariably as respiratory poison.

In the event of fire the following can be released:

Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide (CO)  
Sulphur dioxide (SO<sub>2</sub>)

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply ( isolated ).

Additional information

Cool endangered containers with water spray jet.  
Collect contaminated firefighting water separately, must not be discharged into the drains.

**6. ACCIDENTAL RELEASE MEASURES**

## Personal precautions

Use breathing apparatus if exposed to vapours/aerosol with filter Typ A2, A2/P2 or ABEK.

Use personal protective clothing.

High risk of slipping due to leakage/spillage of product.

## Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the subsoil/soil.

## Methods for cleaning up

Take up with absorbent material (e.g. oil binder).

After taking up the material dispose according to regulation.

Additional information

no

**7. HANDLING AND STORAGE**

## Advice on safe handling

Avoid formation of oil dust.

## Advice on protection against fire and explosion

Do not smoke.

## Requirements for storage rooms and vessels

Only use containers that are approved specifically for the substance/product.

## Advice on storage compatibility

Do not store together with oxidizing agents.

## Further information on storage conditions

To be store under control of light and temperature conditions.

Storage group 10

Fire class B

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Respiratory protection**

Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.

**Hand protection**

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 388  
 Chemikalienschutzhandschuhe sind in ihrer Ausführung in Abhängigkeit von Gefahrstoffkonzentration und -menge arbeitsplatzspezifisch auszuwählen.

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller verschieden.

Die genaue Durchbruchzeit des Handschuhmaterials ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

**Eye protection**

safety goggles with side protection, in case of increased risk add protective face shield

**Skin protection**

Oil-resistant and hardly inflammable protective clothing.

**General protective measures**

Do not inhale vapours.

Avoid contact with eyes and skin

It is recommended to use safety clothing, safety gloves and safety goggles/safe screen.

**Hygiene measures**

Clean skin thoroughly after working.

Cloths contaminated with product should not be kept in trouser pockets.

At work do not eat, drink, smoke or take drugs.

Keep away from food and drink.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form liquid	Colour yellow	Odour mild
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**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
pourpoint	ca. -27 °C			DIN/ISO 3016	
Flash point	ca. 210 °C			DIN ISO 2592	
Lower explosion limit	ca. 0,4 Vol-%			DIN 51649	
Upper explosion limit	ca. 5 Vol-%			DIN 51649	
Vapour pressure	< 0,1 hPa	20 °C		calculated	
Density	ca. 0,88 g/cm <sup>3</sup>	15 °C		DIN 51757	
Solubility in water					insoluble
Viscosity 1 kinematic	ca. 46 mm <sup>2</sup> /s	40 °C		DIN 51562	
Viscosit 2 kinematic	ca. 6,7 mm <sup>2</sup> /s	100 °C		DIN 51562	

**Additional information**

The data are subject to usual tolerances.

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**10. STABILITY AND REACTIVITY**

**Conditions to avoid**  
 No hazardous reactions known.

**Materials to avoid**  
 Reactions with strong oxidising agents.

**Hazardous decomposition products**  
 Betreffend möglicher Zersetzungsprodukte siehe Abschnitt 5.

**11. TOXICOLOGICAL INFORMATION****Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
LD 50 acute oral	> 5000 mg/kg	rat		
LD 50 acute dermal	> 3000 mg/kg	rabbit		
Irritability skin	non-irritant			
Irritability eye	non-irritant			
Skin sensitization	non-sensitizing			
Sensitization respiratory system	non-sensitising			

**Experiences made from practice**  
 Frequent contact specially if dried out may cause skin and eye irritations.

**Additional information**  
 Labelling in compliance with the assessment procedure specified in the EC guidelines 1999/45/EC.

**12. ECOLOGICAL INFORMATION****Data on elimination (persistence and degradability)**

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.			
<b>Biological degradability</b>				not readily degradable

**General regulation**  
 Do not allow uncontrolled leakage of product into the environment.

**13. DISPOSAL CONSIDERATIONS**

Waste code No.	Name of waste
13 01 10*	mineral based non-chlorinated hydraulic oils

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

**Recommendations for the product**

The disposal code is just a recommendation. Contact your local experts to obtain information about use or disposal of the material involved.

The indication about disposal refers to the product and its residues. If the product is mixed with other materials or preparations an individual evaluation should be necessary.

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Recommendations for packaging  
 Contaminated packaging should be emptied as far as possible and after appropriate cleaning may be taken for reuse.

**14. TRANSPORT INFORMATION**

Land and inland navigation transport ADR/RID  
 No hazardous material as defined by the prescriptions.

Marine transport IMDG  
 No hazardous material as defined by the prescriptions.

Air transport ICAO/IATA-DGR  
 No hazardous material as defined by the prescriptions.

**15. REGULATORY INFORMATION**

Remarks for classification  
 The product does not require a hazard warning label in accordance with EC directives.

National regulations

Decree for case of interference/ remarks	Accident regulation, appendix I: not specified
Technical instruction air remarks 5.2.5. Organische Stoffe	
Water hazard class	1 Mischungs-WGK nach VwVwS von 1999 (Anhang 4) Schwach wassergefährdend

**16. OTHER INFORMATION**

Further information  
 Above information corresponds to our present knowledge and experience. It is not a guarantee that no errors or incomplete data may be contained.

Sources of key data used  
 DGMK-Bericht 400-1, 400-2, 400-7 Concawe-Report "Health aspects of lubricants" 1/1983

Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)  
 R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

TGE-C

Wintershall Oil for Industry

## Wintershall Wiolan HG

Detergent Hydraulic Fluids - zinc free

September 2003

### Characteristics

Wintershall Wiolan HG hydraulic fluids are petroleum-based detergent and dispersant hydraulic fluids. This means that adhering particles and deposits are dissolved (detergent) and held in suspension, along with contaminants which may have entered the system (dispersion). Wintershall Wiolan HG emulsifies water and water-mixed cooling lubricants without any substantial sacrifice in the excellent lubrication and anticorrosion properties. Polar additives in Wintershall Wiolan HG improve glide behaviour and prevent stick-slip behaviour, even under extremely difficult operating conditions including critical start-up and shut-down procedures as well as minimal advance rates at slow speeds under high loads.

### Application

Wintershall Wiolan HG is suited for use in all hydraulic systems for which normal HLP fluids are prescribed. Due to excellent operation results, Wintershall Wiolan HG is particularly recommended for application in all mobile hydraulic units (excavators, bulldozers, wheel loaders, truck hydraulic systems, especially F.X. Meiller). In actual use, Wintershall Wiolan HG has proven itself in hydraulic control units and precision hydraulic systems. Wintershall Wiolan HG is also particularly well-suited for use in the hydraulic systems of machine tools with integrated slide-way lubrication, and maintenance units on compressed air devices used in lubricating compressed air machinery. Operating problems in hydraulic systems caused by contamination and wear can be largely avoided by using Wintershall Wiolan HG.

### Performance

Wintershall Wiolan HG fluids exceed the requirements for HLP hydraulic fluids described in DIN 51 524 Part 2, in a number of important areas.

The following test specifications are fulfilled:

Abex Denison filterability TP-02/100.

Wintershall Wiolan HG hydraulic fluids are products of the H&R ChemPharm.

Typical data	Test method	Wintershall Wiolan				
		HG 10	HG 22	HG 32	HG 46	HG 68
Designation, DIN 51 502		HLPD 10	HLPD 22	HLPD 32	HLPD 46	HLPD 68
Density at 15°C g/cm <sup>3</sup>	DIN 51 757	0,855	0,865	0,873	0,880	0,882
Viscosity at 40°C mm <sup>2</sup> /s	DIN 51 562	10,1	22	32	46	68
Viscosity at 100°C mm <sup>2</sup> /s	DIN 51 562	2,67	4,3	5,4	6,7	8,6
Flash point COC °C	DIN ISO 2592	165	195	205	210	225
Pour Point °C	DIN ISO 3016	- 30	- 30	- 27	- 27	- 24
FZG-Test A/8.3/90 damaged load stage	DIN 51 354	12	> 12	> 12	> 12	> 12
Load capacity N/mm <sup>2</sup>	Brugger	37	37	44	44	47

The above values may vary within the commercial limits.