

SAFETY DATA SHEET

ZEROL HYBRID 46



Date Revised: 31.05.11

Replaces Version:23.04.08

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

Product Name	ZEROL HYBRID 46
Product Use	Lubricant
Supplier	Shrieve Products International Ltd, Suite 39, 40 Churchill Square, Kings Hill, West Malling, Kent ME19 4YU.
Contact Numbers	Tel. +44 (0) 1732 520600 Fax. +44 (0) 1732 520601
E-mail Contact for SDS	sds@shrieve.co.uk
Emergency Telephone Number	NCEC: +44 (0) 1865 407333

2. HAZARDS IDENTIFICATION

Human Health	Xn R22 - Harmful if swallowed.
Safety	No specific hazards.
Environmental	No specific hazards.

3. COMPOSITION / INFORMATION ON INGREDIENTS

DESCRIPTION	Polyalkylene glycol				
HAZARDOUS COMPONENTS	Product Name	EINECS No.	CAS No.	Conc. (m/m)	Classification
	Polyalkylene glycol alkyl ether.	-	353291-27-7	80 - 100%	Xn; R22

4. FIRST AID MEASURES

Inhalation	Remove to fresh air. If required, provide artificial respiration. Keep patient warm. If discomfort persists, obtain medical attention. If required, provide artificial respiration. Keep patient warm.
Skin	Immediately wash with warm soapy water and rinse thoroughly. If persistent discomfort occurs, obtain medical attention.
Eye	Flush the eye immediately with water. If discomfort persists, obtain medical attention.

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Ingestion	If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Wash out the mouth with water. Never administer anything by mouth if a casualty is losing consciousness, is unconscious or is convulsing. If rapid recovery does not occur, obtain medical attention.
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Information to Physicians	Treat symptomatically.
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5. FIRE FIGHTING MEASURES

Extinguishing Means	Water spray, carbon dioxide, dry chemical or alcohol resistant foam.
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Unsuitable Extinguishing Media	Water with full jet.
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Fire Fighting Procedures	Do not enter any enclosed or confined fire space without proper protective equipment including self contained breathing apparatus. Water can be used to cool and protect exposed material.
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Combustion Products	Toxic fumes, gases or vapours may evolve on burning. See also Section 10: Stability and Reactivity.
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6. ACCIDENTAL RELEASE MEASURES

Personal Protection	Wear protective clothing specified for normal operations (see Section 8).
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Environmental Protection	Prevent contamination of soil and water. Prevent from spreading or entering into drains or watercourses by using sand, earth or other appropriate barriers. Inform authorities in case of seepage into watercourse or sewage system.
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Clean up methods - small spillage	Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal.
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Clean up methods - large spillage	Transfer to a salvage tank for recovery or safe disposal. Treat residues as for small spillages.
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7. HANDLING AND STORAGE

Handling	Use only in well ventilated areas. Avoid breathing mist or vapour from heated material.
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Storage	Store in a cool, dry place in tightly closed containers.
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Recommended Materials	For containers; mild steel or stainless steel.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
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Engineering Control Measures	Local exhaust ventilation should be provided if there is risk of mist or aerosol formation.
Respiratory Protection	If there is a risk of breathing mists or vapours from heated material use respiratory protection fitted with a combination filter A-P3 for short term use.
Hand Protection	Where hand contact with the product may occur, the use of gloves approved to relevant standards (e.g. Europe: EN374, US: F739) made from the following materials may provide suitable chemical protection: nitrile, PVC. Always seek advice from glove suppliers.
Eye Protection	Chemical splash goggles (chemical monogoggles). Approved to EU standard EN166, AS/NZS: 1337.
Body Protection	Standard issue work clothes, safety shoes or boots - chemical resistant.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Amber colour
Odour	Characteristic
Boiling Point	Decomposes before boiling
Pour Point	<-30°C
Flash Point (COC)	>200°C
Relative Density	1.000 g/cm ³ at 20°C (typical)
Solubility in Water	Partially soluble
Viscosity at 40°C	49 mm ² /s (typical)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions of use. Can decompose slowly with localised heating above 150°C.
Materials to Avoid	Reacts with strong acids and oxidising agents.
Hazardous Decomposition Products	Incomplete combustion may produce carbon monoxide, carbon dioxide or aldehydes.

11. TOXICOLOGICAL INFORMATION

Basis for Assessment	Information given is based on the toxicology of major component and closely related products.
Acute Toxicity - Oral	Low toxicity: LD ₅₀ (rat) : >200 - ≤2000 mg/kg.
Acute Toxicity - Dermal	Not established.
Acute Toxicity - Inhalation	Not established.
Eye Irritation	May cause slight transient irritation.
Skin Irritation	May cause slight transient irritation. Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.
Skin Sensitisation	Not expected to be a skin sensitiser.
Mutagenicity	Does not exhibit mutagenic activity in the following systems (with and without metabolic activation): salmonella typhimurium. (based on major component). Swallowing may have the following effects:
Additional Toxicological information	Irritation of mouth, throat and respiratory tract. Vomiting. Diarrhoea. Exposure to vapour at high concentrations may have the following effects: irritation of nose, throat and respiratory tract. Low volatility makes acute effects unlikely at ambient temperatures. Repeated exposure to aerosols may result in lung damage.

12. ECOLOGICAL INFORMATION

Basis for Assessment	Ecotoxicological data have not been determined specifically for this product. The information given below is based on knowledge of the components and the ecotoxicology of similar products.
Acute Toxicity - Fish	Data not available.
Acute Toxicity - Daphnia	Data not available.
Acute Toxicity - Algae	Data not available.
Mobility	Data not available.
Persistence/Degradability	Expected to be partially or slowly biodegradable.
Bioaccumulation	Not expected to bioaccumulate.
WGK Classification	WGK = 1 (self classification).



13. DISPOSAL CONSIDERATIONS

Waste Disposal	The European Waste Category (E.W.C) for this material is: 13-02-06. The user must be aware that the conditions of use may affect the waste classification after use (see EU Directive 2001/118/EC).
Product Disposal	Must not be disposed together with household rubbish. Do not allow product to reach sewage system. Incineration is the recommended method of disposal.
Container Disposal	Labels should not be removed from containers until they have been cleaned. Containers should be cleaned by appropriate methods and then re-used or disposal of by landfill or incineration as appropriate. Recommended cleansing agents: water with cleansing agents is required.
Local Legislation	The recommendations given are considered appropriate for safe disposal. However, local regulations may be more stringent and these must be complied with.

14. TRANSPORT INFORMATION

Not Dangerous for Conveyance under UN, IMDG, ADR, RID and IATA codes.

15. REGULATORY INFORMATION

EC Classification	Harmful.
EC Symbols	Xn - Harmful.
EC Risk Phrases	R22 Harmful if swallowed.
EC Safety Phrases	S24/25 Avoid contact with skin and eyes. S46 If swallowed, seek medical advice immediately and show this container or label.
INTERNATIONAL REGISTRATION:	
EC (EINECS)	In compliance.
US (TSCA)	In compliance.
Canada (DSL)	In compliance.
Australia (AICS)	In compliance.
Korea (KECI)	In compliance.
Philippines (PICCS)	In compliance.
China (IECSC)	In compliance.



16. OTHER INFORMATION

National Regulations	Reference should be made to national laws that implement the relevant regulatory provisions and any other national measures not covered in this data sheet.
SDS Distribution	The information in this document should be made available to all who may handle the product.
SDS Revisions	A vertical bar () in the left margin indicates an amendment from the previous version.
SDS Preparation	This Safety Data Sheet has been prepared in accordance with the requirements of the Data Sheet Directive 1907/2006/EC.

The information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the result of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.