



## MATERIAL SAFETY DATA SHEET

(According to 1907/2006/EC, Article 31)

Product name: AWF 1400

Revised on: 09/10/08

### 1. Material, preparation and company name:

<b>Trade name:</b>	<b>AWF 1400 – Lubricating Grease</b>
<b>Product information:</b>	40g tube 1kg can / 5kg – 10kg – 25kg bucket
<b>Use of material/Preparation:</b>	High pressure grease for the lubrication of ejector pins and mould parts in die casting and injection moulding moulds
<b>Manufacturer/Supplier:</b>	Drei-S-Werk GmbH & Co. KG Schmauser-Straße 3 D-91564 Neuendettelsau
<b>Information given by:</b>	Department Zentrale Technik Mr. Pius Eichinger Tel.: 09874 / 5042-281

### 2. Hazards Identification:

<b>Classification:</b>	None – on conventional usage.
<b>Additional danger warnings for man and environment:</b>	This product is not subject to specific labelling on the basis of analysis according to "General Classification Directive of Preparations of EC" last version.
<b>Classification system:</b>	The classification complies with current EC-lists; completed by specialist literature and company information.

### 3. Composition/Information on ingredients:

<b>Chemical characterisation</b>	Lubricating grease made of highly refined mineral oil added by solid lubricating substances and EP-Additives.
<b>Hazardous Substances (preparation):</b>	<b>Denomination:</b> Zincdialkyldithiophosphate <b>CAS-/EINECS-No.:</b> 272-028-3 %: 1 – 2,5 <b>Symbol:</b> Xi, N <b>R-Phrases:</b> 38, 41, 51/53
<b>Additional information:</b>	The R-Phrases are stated completely in Chapter 16. Highly refined mineral oil (IM 346 DMSOExtract < 3 %)

### 4. First Aid Measures:

<b>General notes:</b>	No particular measures required.
<b>After inhalation:</b>	No particular measures required.
<b>After skin contact:</b>	Wash with water and soap.
<b>After eye contact:</b>	Rinse for several minutes with running water eyelid open.
<b>After ingestion:</b>	Do not bring to regorge - aspiration hazard.



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### 5. Fire fighting measures:

<b>Suitable extinguishing media:</b>	Fire extinguishing measures to be adjusted to surrounding.
<b>Special hazards due to material, its combustion products or gases:</b>	Sulphur dioxide (SO <sub>2</sub> ) Carbon monoxide (CO)
<b>Particular protective equipment:</b>	Breathing apparatus has to be used.
<b>Further statements:</b>	Gather contaminated water separately, it must not reach canalisation.

### 6. Accidental release measures:

<b>Personal protection:</b>	Avoid skin and eye contact.
<b>Environmental measures:</b>	Do not let it reach the soil. Do not let it reach the surface water, canalisation, ground water.
<b>After spillage/leakage:</b>	Mechanical absorption.

### 7. Handling and storage:

<b>Handling:</b>	
<b>Details for safe handling:</b>	Avoid skin and eye contact. No particular measures necessary.
<b>Details for fire and explosion protection:</b>	No particular measures necessary
<b>Storage:</b>	
<b>Demands on storerooms and containers:</b>	Storage according to local water regulations.
<b>Details for combined storage:</b>	Not necessary.
<b>Other details regarding storage:</b>	Protect against frost and direct sunray.

### 8. Exposure controls and personal protection:

<b>Additional notes for the organisation of technical facilities:</b>	No further instructions, see point 7.
<b>Personal protective equipment:</b>	
<b>General protective and hygiene measures:</b>	Avoid longer and intensive skin contact.
<b>Respiratory protection:</b>	Not necessary.
<b>Hand protection:</b>	Protective gloves.
<b>Gloves material:</b>	Nitrile rubber.



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<b>Gloves material lifespan:</b>	Nitrile: thickness 0,4 mm; Time of penetration >240 min. The exact wear lifespan to be stated by protective gloves manufacturer.
<b>Eye protection:</b>	Safety glasses.
<b>Body protection:</b>	Working clothes.

### 9. Physical and chemical properties:

<b>Appearance:</b>	Paste-like	
<b>Colour:</b>	Creamy	
<b>Odour:</b>	Product-specific	
<b>Change of state:</b>		
<b>Melting point/melting range:</b>		
<b>Boiling point/boiling range:</b>	Not applicable	
<b>Flash point:</b>	Not applicable	
<b>Ignition point:</b>		
<b>Explosion danger:</b>		
<b>Explosion range:</b>	Not defined.	
<b>Density at 20 °C:</b>	0,940 g/mL	DIN 51757
<b>Vapour pressure at 20 °C :</b>	< 1 hPa	
<b>Dropping point:</b>	> 170 °C	ISO 2176
<b>Penetration 25°C:</b>	265-295 0,1 mm	ISO 2137
<b>PH -Value (40g/L) at 20°C:</b>		
<b>Solubility in / Miscibility with water at 20°C:</b>	Insoluble.	

### 10. Stability and reactivity:

<b>Thermic decomposition / Terms to avoid:</b>	No decomposition on conventional application.
<b>Substances to avoid:</b>	Strong oxidants.
<b>Dangerous reactions:</b>	No dangerous reactions known.
<b>Dangerous decomposition products:</b>	On uncomplete combustion and thermolysis to a greater or to a lesser extent toxic gases can be formed, like SO <sub>x</sub> , CO, CO <sub>2</sub> , crackproducts, aldehydes and soot.

### 11. Toxicological information:

<b>Acute toxicity:</b>	
<b>Primary irritation:</b>	
<b>Skin irritation:</b>	Longer continuing skin contact may cause a skin defatting and irritation as consequence.
<b>Eye irritation:</b>	No irritation.
<b>Sensitisation:</b>	No sensitising effect known.
<b>Additional toxicological notes:</b>	On appropriate exposure and conventional application the product causes, according to our experience and to the information at our disposal, no harmful effects.



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### 12. Ecological information:

#### General details:

Water hazard class 1 – low hazard – self classification  
acc. to VwVwS of 17.05.1999.

Water contamination class: 1 (self evaluation)

Do not let it get into watercourses, canalisation and soil.

### 13. Disposal considerations:

#### Product:

#### Recommendation:

Do not dispose together with domestic waste. Do not  
attain it into canalisation.

#### Waste class:

120112 used waxes and fats.

#### Uncleaned packaging:

#### Recommendation:

Dispose according to official instructions.

### 14. Transport information:

#### Transport by ground ADR/RID and GGVS/GGVE (cross-border):

#### ADR/RID-GGVS/E Class:

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#### Transport by sea IMDG/GGVSea:

#### IMDG/GGVSea- Class:

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#### Marine pollutant:

No

#### Transport by air ICAO-TI and IATA DGR:

#### ICAO/IATA-Class:

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#### Further information:

Not hazardous goods acc. to the above regulations.

### 15. Regulatory information:

#### Designation according to EWG-Directives:

Usual precautions on handling chemicals have to be  
considered.

This product is not designated according to EC-  
Directive/Ordinance on Hazardous Substances.

#### Particular designation of given preparations:

Material safety data sheet is available on request for  
professional users.

#### National regulations:

#### Water hazard class:

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### 16. Other information:

The information contained herein is based on our present knowledge and experience, but is not a warranty of product characteristics and does not constitute a basis for a contractual legal relationship.

### Relevant R-Phrases:

R38 Irritating to skin  
R41 Risk of serious damage to eyes  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.