

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 19-7-2016 Supersedes: 16-1-2014 version: 4.2

SECTION 1: Identification of the	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Hydraulic Oil HVI 46
Product code	: 30000
Product group	: Blend
1.2. Relevant identified uses of th	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use, Industrial use, Consumer use
Industrial/Professional use spec	: Non-dispersive use Used in closed systems
Function or use category	: Hydraulic fluids and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

MPM International Oil Company Cyclotronweg 1 2629 HN Delft - Nederland T +31 (0)15 2514030 - F +31 (0)15 2514031 info@mpmoil.nl - www.mpmoil.nl

1.4. Emergency telephone number

Emergency number

: +31 (0)15 2514030 (08.00 - 17.00 GMT+1)

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements Extra phrases

: EUH210 - Safety data sheet available on request.

: This material and its container must be disposed of in a safe way, and as per local legislation.

2.3. Other hazards

No additional information available

SECT	ION 3: Composition/infor	nation on ingredients
3.1	Substances	

Not applicable

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3.2. Mixtures

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Zinc dialkyl dithiophosphate	(CAS-No.) 68649-42-3 (EC-No.) 272-028-3	0,1 - 0,99	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
After inhalation	: Not required.
After skin contact	: Wash with plenty of soap and water.
After eye contact	: In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
After ingestion	: Do NOT induce vomiting. Rinse mouth. Get immediate medical advice/attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medica	l attention and special treatment needed
First Aid, decontamination, treatment of sympton	is.
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide (CO2). Powder. Foam.
Unsuitable extinguishing media	: High power water jet.
5.2. Special hazards arising from the sul	
Fire hazard	: On heating/burning: release of (highly) toxic gases/vapours e.g.: carbon monoxide - carbon
	dioxide.
5.3. Advice for firefighters	
Precautionary measures fire	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Do not allow water used to extinguish fire to enter drains or waterways. Use water spray/stream to protect personnel and to cool endangered containers.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Keep away from sources of ignition - No smoking.
6.1.1. For non-emergency personnel	
Protective equipment	: Gloves. Safety glasses.
6.1.2. For emergency responders	
Protective equipment	: Wear suitable protective clothing and eye/face protection.
6.2. Environmental precautions	
	amming or installing oil booms). Avoid release to the environment. Notify authorities if liquid enters
6.3. Methods and material for containme	ent and cleaning up
Methods for cleaning up	: Clean up with absorbent material (for example sand, sawdust, neutral absorbent granule, silica gel). Remove from the water surface (e.g. skimming, sucking).
Other information	: Can be slippery on hard, smooth walking area.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Provide adequate ventilation.
Hygiene measures	: When using do not eat, drink or smoke. Avoid all unnecessary exposure. Wash hands before breaks and at the end of work.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Store in a well-ventilated place. Keep container tightly closed.
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Storage conditions		: Keep the packing dry and well sealed to prevent contamination and absorbtion of dampness.
Storage	temperature	: <40 °C
Storage	area	: Keep container tightly closed in a cool, well-ventilated place.
7.3.	Specific end use(s)	

No additional information available

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
Hydraulic Oil HVI 46	Hydraulic Oil HVI 46	
EU	IOELV TWA (mg/m ³)	5 mg/m³

Additional information

: Based on ACGIH TLV, a concentration of 5 mg/m3 oilspray (TWA, 8 hour workday) is recommended.

8.2. Exposure controls

Technical measures:

Provide adequate ventilation.

Hand protection:

Wear suitable gloves. DIN EN 374

Eye protection:

Safety glasses

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection:

Not necessary with sufficient ventilation

SECTION 9: Physical and chemica	I properties
9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Oily.
Colour	: Yellowbrown.
Odour	: Oily.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 218 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 876 g/l
Solubility	: Water: insoluble
Log Pow	: No data available
Viscosity, kinematic	: 46 mm²/s 40C
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

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9.2.	Other information		
No add	itional information available		
SECT	ION 10: Stability and reactivity		
10.1.	Reactivity		
None u	None under normal use.		
10.2.	Chemical stability		
The pro	duct is stable at normal handling- and storage conditions.		
10.3.	Possibility of hazardous reactions		
No additional information available			
10.4.	Conditions to avoid		
None under normal use.			
10.5.	Incompatible materials		
A aida a	nd hanna Ovidizing substances		

Acids and bases. Oxidizing substances.

10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours e.g.: carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	Not classified	
Hydraulic Oil HVI 46		
LD50 oral rat	No data available	
Zinc dialkyl dithiophosphate (68649-42-3)		
LD50 oral rat	2230 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
Skin corrosion/irritation	Not classified	
Additional information	Repeated or prolonged skin contact may cause irritation	
Serious eye damage/irritation	Not classified	
Additional information	slightly irritant but not relevant for classification.	
Respiratory or skin sensitisation	Not classified	
Germ cell mutagenicity	Not classified	
Carcinogenicity	Not classified	
Reproductive toxicity	Not classified	
STOT-single exposure	Not classified	
STOT-repeated exposure	Not classified	
Aspiration hazard	Not classified	
Hydraulic Oil HVI 46		
Viscosity, kinematic	46 mm²/s 40C	
Other information	No specific data. This product does not present any particular risk when handled in accordance with good occupational hygiene practice.	

SECTION 12: Ecological information		
12.1. Toxicity		
General	: Do not allow uncontrolled leakage of product into the environment.	
Hydraulic Oil HVI 46		
LC50 fish 1	No data available	
Zinc dialkyl dithiophosphate (68649-42-3)		
LC50 fish 1	1 - 5 mg/l @ 96 h	
EC50 Daphnia 1	1 - 1,5 mg/l @ 48 h	
EC50 other aquatic organisms 1	1 - 5 mg/l @ 96 h Algae	
NOEC (acute)	1 mg/l @ 96 h (Fish)	
12.2. Persistence and degradability		

Hydraulic Oil HVI 46		
	Persistence and degradability	Not soluble in water, so only minimally biodegradable.
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Zinc dialkyl dithiophosphate (68649-42-3)		
Persistence and degradability	Not readily biodegradable.	
12.3. Bioaccumulative potential		
Zinc dialkyl dithiophosphate (68649-42-3)		
Bioaccumulative potential	not determined.	
12.4. Mobility in soil		
Zinc dialkyl dithiophosphate (68649-42-3)		
Soil	No data available.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Other adverse effects		
Additional information :	insoluble in water. Some of the components are biologically degradable with difficulty.	

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal recommendations	: Hand over to officially registered waste disposal company.	
Waste materials	 Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to official state regulations. 	

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	
14.1. UN number		
Not applicable	Not applicable	
14.2. UN proper shipping name		
Not applicable	Not applicable	
14.3. Transport hazard class(es)		
Not applicable	Not applicable	
Not applicable	Not applicable	
14.4. Packing group		
Not applicable	Not applicable	
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	
No supplementary information available		

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

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SECTION 16: Other information

Indication of changes:

indication of changes.	Cumanaadaa	
	Supersedes	Added
	SDS EU format	Added
	Revision date	Modified
	Extra phrases	Added
1.1	Name	Modified
2.2	EUH-statements	Added
2.2	S-phrases	Added
2.2	Extra phrases	Modified
3	Composition/informatio n on ingredients	Modified
9.1	Density	Modified
9.1	Viscosity, kinematic	Modified

Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists. TWA: Time Weighted Average. TLV: Threshold Limit Value. ASTM: American Society for Testing and Materials . ADR: Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route . RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail . ADNR: Accord Européen relatif au Transport International des Marchandises Dangereuses par voie de Navigation du Rhin. IMDG: International Maritime Dangerous Goods. ICAO: International Civil Aviation Organization . IATA: International Air Transport Association. STEL: Short Term Exposure Limit. LD50: median Lethal Dose for 50% of subjects. ATE: acute toxicity estimate. LC50: median Lethal Concentration for 50% of subjects. EC50: concentration producing 50% effect.

Full text of H- and EUH-statements:

Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

SDS MPM REACH

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product