according to UK REACH Regulation

## **ADDINOL Hydraulic Fluid HFD U 46**

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Product code: 760008

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

ADDINOL Hydraulic Fluid HFD U 46

## 1.2. Relevant identified uses of the substance or mixture and uses advised against

## Use of the substance/mixture

Hydraulic fluid.

## 1.3. Details of the supplier of the safety data sheet

## Manufacturer

	Manufacturer		
	Company name:	ADDINOL Lube Oil GmbH	
		Gebäude 4609	
	Street:	Am Haupttor	
	Place:	D-06237 Leuna	
	Telephone:	+49 (0) 3461 845-0	Telefax: +49 (0) 3461 845-555
	E-mail:	info@addinol.de	
	Contact person:	Application Technology	
	Internet:	www.addinol.de	
	Responsible Department:	ADDINOL Application Technology	
	Supplier		
	Company name:	Gidov Oil & Logistics Ltd.	
	Street:	76 Cobham Road, Ferndown Industrial Estate	
	Place:	GB-TN157DA Wrotham, Sevenoaks Kent	
	Telephone:	+44 7729229830	Telefax: +44 7729229830
	E-mail:	sales@addinol.co.uk	
	Internet:	https://www.gidovlogistics.co.uk/	
1.4	4. Emergency telephone	+44 7729229830 - This number is serviced dur	ing office hours.
			-

## number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

# 2.2. Label elements

#### **GB CLP Regulation**

## Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

#### Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

## 2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defattening or dermatitis. Spilled product must not leak into the ground. Do not allow uncontrolled leakage of product into the environment.

## **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

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## **Relevant ingredients**

CAS No	Chemical name				
	EC No	EC No Index No REACH No			
	Classification (GB CLP Regulation)				
68411-46-1	alkylated diphenylamine	alkylated diphenylamine			
	270-128-1 01-2119491299-23				
	Repr. 2; H361f				

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE						
CAS No	EC No	Chemical name	Quantity			
	Specific Conc.	Limits, M-factors and ATE				
68411-46-1	270-128-1	alkylated diphenylamine	0.1 - < 0.3 %			
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 5000 mg/kg				

#### **Further Information**

DMSO-Extract < 3 %; IP 346. Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. Use skin protection ointment after cleaning. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

## 4.2. Most important symptoms and effects, both acute and delayed

No information available.

## **4.3. Indication of any immediate medical attention and special treatment needed** First Aid, decontamination, treatment of symptoms.

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. alcohol resistant foam. Water fog.

## Unsuitable extinguishing media

High power water jet.

## 5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). carbon black

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## 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

## 6.3. Methods and material for containment and cleaning up

## Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Section 12: Ecological Information (non-mandatory) Disposal: see section 13

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

## Advice on safe handling

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.

## Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs. Keep away from: Oxidizing agents.

#### Further information on storage conditions

Protect against: UV-radiation/sunlight. heat. frost. Recommended storage temperature: 5 - 40°C

## 7.3. Specific end use(s)

Further information: see technical data sheet.

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# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

## **DNEL/DMEL** values

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
68411-46-1	alkylated diphenylamine					
Worker DNEL,	long-term	inhalation	systemic	0,6 mg/m³		
Worker DNEL, long-term		dermal	systemic	0,08 mg/kg bw/day		
Consumer DNEL, long-term		inhalation	systemic	0,14 mg/m³		
Consumer DNEL, long-term		dermal	systemic	0,04 mg/kg bw/day		
Consumer DNEL, long-term		oral	systemic	0,04 mg/kg bw/day		

## **PNEC** values

CAS No	Substance	
Environmenta	compartment	Value
68411-46-1	alkylated diphenylamine	
Freshwater		0,034 mg/l
Freshwater (ir	0,51 mg/l	
Marine water		0,003 mg/l
Freshwater sediment		0,446 mg/kg
Marine sediment		0,045 mg/kg
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Soil		1,76 mg/kg

## Additional advice on limit values

Recommended limit value for oil mist TWA: 5 mg/m<sup>3</sup> STEL: 10 mg/m<sup>3</sup>

The product does not contain any relevant quantities of substances with legally established exposure limitation.

## 8.2. Exposure controls





#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

## Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min Suitable material: NBR (Nitrile rubber). PVC (Polyvinyl chloride).

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Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min Suitable material: NBR (Nitrile rubber). PVC (Polyvinyl chloride). Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

#### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

## **Respiratory protection**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chei	mical properties		
Physical state:	liquid		
Colour:	yellow-orange		
Odour:	characteristic		
Odour threshold:	not determined		
			Test method
Melting point/freezing point:		No data available	
Boiling point or initial boiling point and		not determined	
boiling range:			
Flammability:		No data available	
Lower explosion limits:		0,6 vol. %	
Upper explosion limits:		6,5 vol. %	
Flash point:		> 280 °C	DIN EN ISO 2592
Auto-ignition temperature:		not determined	
Decomposition temperature:		No data available	
pH-Value:		No data available	
Viscosity / kinematic:		49 mm²/s	ASTM D 7042
(at 40 °C)			
Water solubility:		virtually insoluble	
Solubility in other solvents			
No data available			
Partition coefficient n-octanol/water:		No data available	
Vapour pressure:		No data available	
Density (at 15 °C):		0,916 g/cm³	DIN 51757
Relative vapour density:		No data available	
Particle characteristics:		No data available	
9.2. Other information			
Information with regard to physical haz	ard classes		
Explosive properties			
No data available			
Self-ignition temperature			
Solid:		No data available	
Gas:		No data available	
Oxidizing properties			
No data available			
Other safety characteristics			

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Evaporation rate:

Pour point:

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No data available

-25 °C ASTM D 7346

## Further Information

No data available

## **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

## 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

## 10.3. Possibility of hazardous reactions

No known hazardous reactions.

## 10.4. Conditions to avoid

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

## 10.5. Incompatible materials

Reacts with: Oxidizing agents, strong.

## 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). carbon black

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in GB CLP Regulation

## Acute toxicity

Based on available data, the classification criteria are not met. Mixture not tested.

## **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name							
	Exposure route Dose Species Source Method							
68411-46-1	alkylated diphenylamine							
		LD50 > mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401		
		LD50 > mg/kg	> 2000	Rat	Study report (1988)	OECD Guideline 402		

## Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met. Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

## Sensitising effects

Based on available data, the classification criteria are not met.

## Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

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## STOT-repeated exposure

Based on available data, the classification criteria are not met.

## Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

## Endocrine disrupting properties

not applicable

## **Further information**

If handled with proper care and at intended use, the product does not cause any harmful effects acc. to our experiences and available information.

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Based on available data, the classification criteria are not met. No data available

## Mixture not tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
68411-46-1	alkylated diphenylamine						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Danio rerio	Study report (1988)	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 100		Desmodesmus subspicatus	Study report (2006)	OECD Guideline 201
	Acute crustacea toxicity	EC50	51 mg/l	48 h	Daphnia magna	Study report (2004)	OECD Guideline 202

## 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

## 12.3. Bioaccumulative potential

#### No data available

## Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68411-46-1	alkylated diphenylamine	6,66
BCF		

CAS No	Chemical name	BCF	Species	Source
68411-46-1	alkylated diphenylamine	411	Cyprinus carpio	Study report (2000)

#### 12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater. Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No data available

## **Further information**

Do not allow uncontrolled leakage of product into the environment.

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## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

## **Disposal recommendations**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

#### List of Wastes Code - residues/unused products

OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN 130112 CHAPTERS 05, 12 AND 19); waste hydraulic oils; readily biodegradable hydraulic oils; hazardous waste

## Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Inland waterways transport (ADN)	
14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Marine transport (IMDG)	
14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	-
14.2. UN proper shipping name:	-
14.3. Transport hazard class(es):	-
14.4. Packing group:	-
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	
Unless specified otherwise, general me	asures for s
14.7. Maritime transport in bulk according to	IMO instru
No dangerous good in sense of these to	ransport reg
SECTION 15: Regulatory information	
15.1. Safety, health and environmental regul	ations/legis
	anononegio
National regulatory information	

safe transport must be followed.

## iments

ulations.

#### slation specific for the substance or mixture

Water hazard class (D):

1 - slightly hazardous to water

## 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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## **SECTION 16: Other information**

## Changes

This data sheet contains changes from the previous version in section(s): 2,3,8,9,12.

# Abbreviations and acronyms

Repr: Reproductive toxicity

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road: ADN -European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ASTM - American Society for the Testing of Materials: ATE - Acute Toxicity Estimates: bw - Body weight: CAO -Cargo Aircraft Only: CAS - Chemical Abstracts Service: CMR - Carcinogen, Mutagen or Reproductive Toxicant: DIN - Standard of the German Institute for Standardisation: DNEL - Derived No-Effect Level: DOT -Department of Transportation; DSL - Domestic Substances List (Canada); EG - European Union; EN -European standards; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n;o;s; - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; OECD - Organization for Economic Co-operation and Development; PBT -Persistent, Bioaccumulative and Toxic substance; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulation concerning the International Carriage of Dangerous Goods by Rail; RQ -Reportable Quantity; SADT - Self- Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Relevant H and EUH statements (number and full text)

H361f	Suspected of damaging fertility.
EUH210	Safety data sheet available on request.

#### **Further Information**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)