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SECTION 1: Identification of the	ne substance/mixture and of the company/u	undertaking	
1.1. Product identifier Alpine ZHF-M Zentral-Hy	draulik-Fluid		
1.2. Relevant identified uses of th	ne substance or mixture and uses advised again	<u>ist</u>	
Use of the substance/mixture hydraulic oil			
Uses advised against No information available.			
1.3. Details of the supplier of the	safety data sheet		
Company name:	Mitan Mineralöl GmbH		
Street:	Industriestraße 8		
Place:	D-49577 Ankum		
Telephone:	+49 (0)5462/7470-50	Telefax:+49 (0)5462/7470-33	
e-mail:	info@mitan-oil.de		
Internet:	www.mitan-oil.de		
Responsible Department:	Produktsicherheit / Product Safety sicherheitsdatenblatt@mitan-oil.de		
1.4. Emergency telephone	Giftinformationszentrum Nord (Göttingen)		
number:	+49 (0)551/19240		

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

2.2. Label elements

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

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization Mineral oil, Additive





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Hazardous components

CAS No	Chemical name			Quantity			
	EC No	Index No	REACH No				
	GHS Classification	GHS Classification					
72623-86-0	-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified						
	276-737-9	649-482-00-X	01-2119474878-16				
	Asp. Tox. 1; H304						
64742-54-7	7 Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified						
	265-157-1	649-467-00-8	01-2119484627-25				
	Asp. Tox. 1; H304						

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					
72623-86-0	276-737-9	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified	39 - <= 65,7 %				
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg						
64742-54-7	265-157-1 Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified		13 - < = 22 %				
	dermal: LD50 =	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg					

Further Information

This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Call a doctor if you feel unwell.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.





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

No information available.

<u>4.3. Indication of any immediate medical attention and special treatment needed</u> Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use water spray jet to protect personnel and to cool endangered containers.

Co-ordinate fire-fighting measures to the fire surroundings.

- Water spray jet
- Foam
- Carbon dioxide (CO2).
- Extinguishing powder

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- In case of fire may be liberated:
 - Nitrogen oxides (NOx)
 - Carbon monoxide (CO)
 - Carbon dioxide (CO2).
 - Pyrolysis products, toxic

5.3. Advice for firefighters

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

In case of fire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Keep people at a distance and stay on the windward side. Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Wear protective gloves/protective clothing and eye/face protection.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

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

6.3. Methods and material for containment and cleaning up

For containment

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.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.





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Remove from the water surface (e.g. skimming, sucking).

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of oil dust. Use personal protection equipment. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately.

Advice on protection against fire and explosion

No special fire protection measures are necessary. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Floors should be impervious, resistant to liquids and easy to clean.

Hints on joint storage

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions
- Explosives
- Radioactive substances
- Infectious substances

Further information on storage conditions

Note Regulation on facilities for the storage, filling and handling water-polluting substances. ..

7.3. Specific end use(s)

hydraulic oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters





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DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
72623-86-0	Lubricating oils (petroleum), C15-30, hydrotreated neutral	oil-based; Baseoil - uns	pecified	
Worker DNEL,	long-term	inhalation	systemic	2,73 mg/m ³
Worker DNEL,	long-term	inhalation	local	5,58 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,97 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	local	1,19 mg/m ³
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Base	oil - unspecified	·	
Worker DNEL,	long-term	inhalation	systemic	2,73 mg/m ³
Worker DNEL,	long-term	inhalation	local	5,58 mg/m³
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	local	1,19 mg/m ³
Consumer DN	EL, long-term	oral	systemic	0,74 mg/kg bw/day

PNEC values

CAS No	Substance				
Environmental compartment Value					
72623-86-0 Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified					
Secondary poi	Secondary poisoning 9,33 mg/kg				
64742-54-7	64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified				
Secondary poi	Secondary poisoning 9,33 mg/kg				

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls







Appropriate engineering controls

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

Protective and hygiene measures

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

Eye/face protection

During filling, metering, mixing and sampling must be used: Wear eye/face protection. DIN EN 166





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Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Wear suitable protective clothing. DIN EN 14605

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	green	
Odour:	characteristic	
Odour threshold:	not determined	
pH-Value:		not determined
Changes in the physical state		
Melting point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Pour point:		not determined
Flash point:		180 °C
Flammability		
Solid/liquid:		not applicable
Gas:		not applicable
Explosive properties Product is not explosive. However, for	mation of oxplosive air/vanour mixtu	iros aro possiblo
•		
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		not determined
Oxidizing properties The product is not: oxidising.		
Vapour pressure:		not determined
Density (at 15 °C):		0,832 g/cm³





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not determined					
not determined					
25,3 mm²/s					
not determined					
not determined					
not determined					
	Product code: MIT0103 not determined 25,3 mm²/s not determined not determined not determined				

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point Reaction with: Oxidizing agent

10.4. Conditions to avoid

Avoid: Thermal decomposition

10.5. Incompatible materials

Materials to avoid:

- Acids
- Reducing agent
- Oxidising agent

10.6. Hazardous decomposition products

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO2)
- Nitrogen oxides (NOx)

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

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





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CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
72623-86-0	Lubricating oils (petroleur	n), C15-30, hy	drotreated	neutral oil-based; Baseoil	- unspecified		
	oral	LD50 × mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401	
	dermal	LD50 × mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402	
64742-54-7	Distillates (petroleum), hy	drotreated hea	avy paraffin	iic; Baseoil - unspecified			
	oral	LD50 ; mg/kg	> 5000	Rat	Study report (1982)	OECD Guideline 401	
	dermal	LD50 × mg/kg	> 5000	Rabbit	Study report (1982)	OECD Guideline 402	

Irritation and corrosivity

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

Based on available data, the classification criteria are not met. The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

STOT-single exposure

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

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.

Additional information on tests

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

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

12.1. Toxicity

The product is not: Ecotoxic.





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CAS No	Chemical name							
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method		
72623-86-0	Lubricating oils (petroleum	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based; Baseoil - unspecified						
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203		
	Fish toxicity	NOEC >= 1000 mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a		
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified							
	Acute fish toxicity	LL50 > 100 mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203		

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.





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14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Marine transport (IMDG)						
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
Air transport (ICAO-TI/IATA-DGR)						
<u>14.1. UN number:</u>	No dangerous good in sense of this transport regulation.					
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.					
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.					
14.4. Packing group:	No dangerous good in sense of this transport regulation.					
14.5. Environmental hazards						
ENVIRONMENTALLY HAZARDOUS:	No					
14.6. Special precautions for user						
No dangerous good in sense of this tra	ansport regulation.					
14.7. Maritime transport in bulk according t						
No dangerous good in sense of this tra	ansport regulation.					
SECTION 15: Regulatory information						
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture					
EU regulatory information						
Restrictions on use (REACH, annex XVII):						
Entry 28						
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)					
National regulatory information						
Water hazard class (D):	2 - obviously hazardous to water					
15.2. Chemical safety assessment						
Chemical safety assessments for subs	stances in this mixture were not carried out.					
SECTION 16: Other information						

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%





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LD50: Lethal dose, 50%		
CLP: Classification, labelling and	Packaging	
REACH: Registration, Evaluation	and Authorization of Chemicals	
GHS: Globally Harmonised Syste	m of Classification, Labelling and Packaging of Chemicals	
UN: United Nations		
DNEL: Derived No Effect Level		
DMEL: Derived Minimal Effect Lev	vel	
PNEC: Predicted No Effect Conce	entration	
ATE: Acute toxicity estimate		
LL50: Lethal loading, 50%		
EL50: Effect loading, 50%		
EC50: Effective Concentration 50		
ErC50: Effective Concentration 50		
NOEC: No Observed Effect Conc	entration	
BCF: Bio-concentration factor		
PBT: persistent, bioaccumulative,		
vPvB: very persistent, very bioacc		
	nternational carriage of dangerous goods by rail	
	erning the International Carriage of Dangerous Goods by Inland Waterways	
· · ·	port international des marchandises dangereuses par voies de navigation	
intérieures)		
EmS: Emergency Schedules		
MFAG: Medical First Aid Guide		
ICAO: International Civil Aviation		
	on for the Prevention of Marine Pollution from Ships	
IBC: Intermediate Bulk Container		
SVHC: Substance of Very High C		
For abbreviations and acronyms,	see table at http://abbrev.esdscom.eu	

Relevant H and EUH statements (number and full text)

H304

May be fatal if swallowed and enters airways.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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