

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 24/10/2007 Revision date: 06/03/2024 Supersedes version of: 15/02/2023 Version: 8.0

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

1.1. Product identifier

Product form	: Mixture
Product name	: CENTRAL HYDRAULIC FLUID
UFI	: 8JKN-EM40-AF0W-3K44
Product code	: 5078
Type of product	: WOC
Product group	: Blend

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

1.2.1. Relevant identified uses

Main use category Industrial/Professional use spec Industrial use, Professional use, Consumer use
 Non-dispersive use Used in closed systems
 Lubricants and additives

Function or use category

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

WOLF OIL CORPORATION N.V. Georges Gilliotstraat, 52 2620 Hemiksem, Antwerpen België T 0032 (0)3 870 00 00, F 0032 (0)3 870 00 99 msds@wolfoil.com

1.4. Emergency telephone number

Emergency number

: 0032 (0)3 870 00 00

Country/Area	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090	+356 2545 6508	
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4

H332

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Aspiration hazard, Category 1 Hazardous to the aquatic environment – C Category 3 Full text of H- and EUH-statements: see se	
Adverse physicochemical, human healt	h and environmental effects
No additional information available	
2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS07 GHS08
Signal word (CLP) Contains	 Danger 1-Decene, dimer, hydrogenated; Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics
Hazard statements (CLP)	 H304 - May be fatal if swallowed and enters airways. H332 - Harmful if inhaled. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P261 - Avoid breathing vapours, mist. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P331 - Do NOT induce vomiting. P501 - Dispose of contents/container in accordance with local/regional/national/internationa regulations.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: The mineral oils in the product contain < 3% DMSO extract (IP 346)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Decene, dimer, hydrogenated	CAS-No.: 68649-11-6 EC-No.: 500-228-5 REACH-no: 01-2119537268- 33	40 – 60	Acute Tox. 4 (Inhalation), H332 Asp. Tox. 1, H304

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Baseoil - unspecified	CAS-No.: 72623-86-0 EC-No.: 276-737-9 EC Index-No.: 649-482-00-X REACH-no: 01-2119474878- 16	25 – 40	Not classified
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: 1174522-19-0 EC-No.: 919-029-3 REACH-no: 01-2119457735- 29	3 – 5	Asp. Tox. 1, H304
2,6-Di-tert-butylphenol	CAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33	≤ 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

NameProduct identifierSpecific concentration limits (%)2,6-Di-tert-butylphenolCAS-No.: 128-39-2 EC-No.: 204-884-0 REACH-no: 01-2119490822- 33 $(35 \le C < 100)$ Skin Irrit. 2, H315	Specific concentration limits:		
EC-No.: 204-884-0 REACH-no: 01-2119490822-	Name	Product identifier	Specific concentration limits (%)
	2,6-Di-tert-butylphenol	EC-No.: 204-884-0 REACH-no: 01-2119490822-	(35 ≤ C < 100) Skin Irrit. 2, H315

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Not expected to require first aid measures. Wash skin with mild soap and water. In case of eye contact, immediately rinse with clean water for 10-15 minutes. Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.
4.2. Most important symptoms and effects	, both acute and delayed
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Powder. Dry chemical product.Do not use a heavy water stream.

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5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters	
Precautionary measures fire Firefighting instructions Protection during firefighting	 Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures		
6.1. Personal precautions, protectiv	e equipment and emergency procedures	
6.1.1. For non-emergency personnel Protective equipment	: Wear suitable protective clothing and gloves.	
6.1.2. For emergency responders Protective equipment	: Wear suitable protective clothing and gloves.	
6.2. Environmental precautions		
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.		

6.3. Methods and material for containment and cleaning up	
For containment Methods for cleaning up Other information	 Impound and recover large spill by mixing it with inert granular solids. Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr. Spill area may be slippery. Use suitable disposal containers.
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 Handling temperature Hygiene measures	 Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. < 40 °C Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	g any incompatibilities
Storage temperature Storage area	 : ≤ 40 °C : Store in dry, cool, well-ventilated area.
Germany Storage class (LGK, TRGS 510)	: LGK 10-13 - Other combustible and non-combustible substances
7.3. Specific end use(s)	
No additional information available	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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CENTRAL HYDRAULIC FLUID	
Belgium - Occupational Exposure Limits	
Local name	Huiles minérales (brouillards) # Olie (minerale-; nevel)
OEL TWA	5 mg/m³
OEL STEL	10 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 02/09/2018

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Safety glasses. Gloves.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

No additional information available

8.2.2.2. Skin protection

Skin and body protection:

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

Hand protection:

Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm. Nitrile rubber (NBR) /

8.2.2.3. Respiratory protection

Respiratory protection:

No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

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Colour	: Green.
Appearance	: Oily liquid.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: <-50 °C
Freezing point	: Not available
Boiling point	: > 290 °C
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 120 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: 18.8 mm²/s @ 40°C
Solubility	: Slightly soluble, the product remains on the water surface.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.1 kPa @20°C
Vapour pressure at 50°C	: Not available
Density	: ≈ 830 kg/m³ @15°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Explosion limits

: 0.6 - 6.5 vol %

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

Strong oxidizers. acids. Bases.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: Toxicological information

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

Acute toxicity (oral) Acute toxicity (dermal)

- : Not classified
- : Not classified

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Acute toxicity (inhalation) :	Inhalation:dust,mist: Harmful if inhaled.		
CENTRAL HYDRAULIC FLUID	CENTRAL HYDRAULIC FLUID		
ATE CLP (dust,mist)	2.5 mg/l/4h		
1-Decene, dimer, hydrogenated (68649-11-6)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 3000 mg/kg		
Hydrocarbons, C16-C20, n-alkanes, isoalkane	s, cyclics, <2% aromatics (1174522-19-0)		
LD50 oral	> 5000 mg/kg bodyweight		
LD50 dermal	> 2000 mg/kg bodyweight		
LC50 Inhalation - Rat	> 5000 mg/m³		
2,6-Di-tert-butylphenol (128-39-2)			
LD50 oral rat	> 5000 mg/kg		
LD50 dermal rabbit	> 10000 mg/kg		
Skin corrosion/irritation :	Not classified		
Serious eye damage/irritation :	Not classified		
Respiratory or skin sensitisation :	Not classified		
Germ cell mutagenicity :	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity :	Not classified		
STOT-single exposure :	Not classified		
	Not classified		
Hydrocarbons, C16-C20, n-alkanes, isoalkane	s, cyclics, <2% aromatics (1174522-19-0)		
NOAEL (oral, rat, 90 days)	5000 mg/kg bodyweight/day		
NOAEL (dermal, rat/rabbit, 90 days)	495 mg/kg bodyweight/day		
2,6-Di-tert-butylphenol (128-39-2)			
NOAEL (subacute, oral, 28 days)	100 mg/kg bodyweight/day (407 Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
NOAEL (subchronic, oral, 90 days)	270 mg/kg bodyweight/day (408 Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
Aspiration hazard :	May be fatal if swallowed and enters airways.		
CENTRAL HYDRAULIC FLUID			
Viscosity, kinematic	18.8 mm²/s @ 40°C		
11.2. Information on other hazards			

No additional information available

SECTION 12: Ecological information

12.1. TOXICITY	
(acute)	Not classified Harmful to aquatic life with long lasting effects.
1-Decene, dimer, hydrogenated (68649-11-6)	
LC50 - Fish [1]	> 1000 mg/l Oncorhynchus mykiss
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna

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1-Decene, dimer, hydrogenated (68649-11-6)		
ErC50 algae	> 1000 mg/l @72h Selenastrum capricornutum	
NOEC chronic crustacea	125 mg/l @21d Daphnia magna	
2,6-Di-tert-butylphenol (128-39-2)	·	
LC50 - Fish [1]	1.4 mg/l @96h (Pimephales promelas)	
EC50 - Crustacea [1]	0.45 mg/l @48h (Daphnia magna)	
EC50 - Other aquatic organisms [1]	> 1000 mg/l @3h Microorganism	
EC50 72h - Algae [1]	1.2 mg/l @96h (Pseudokirchneriella subcapitata)	
NOEC chronic crustacea	0.035 mg/l @21d Daphnia magna	
NOEC chronic algae	0.64 mg/l Pseudokirchneriella subcapitata @96h	
12.2. Persistence and degradability		
CENTRAL HYDRAULIC FLUID		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
1-Decene, dimer, hydrogenated (68649-11-6)		
Persistence and degradability	Rapidly degradable	
Baseoil - unspecified (72623-86-0)		
Persistence and degradability	Rapidly degradable	
Hydrocarbons, C16-C20, n-alkanes, isoalkanes, cyclics, <2% aromatics (1174522-19-0)		
Persistence and degradability	Rapidly degradable	
Biodegradation	74 % OECD 306; 28d	
2,6-Di-tert-butylphenol (128-39-2)		
Persistence and degradability	Rapidly degradable	
Biodegradation	≥ 12 – ≤ 24 % @28d (OECD ECHA 302C)	
12.3. Bioaccumulative potential		
1-Decene, dimer, hydrogenated (68649-11-6)		
Partition coefficient n-octanol/water (Log Pow)	> 6.5	
2,6-Di-tert-butylphenol (128-39-2)		
Partition coefficient n-octanol/water (Log Pow)	4.5	
12.4. Mobility in soil		
Baseoil - unspecified (72623-86-0)		
Ecology - soil	Adsorbs into the soil.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		

No additional information available

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Additional information	: Dispose in a safe manner in accordance with local/national regulations.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RID	
14.1. UN number or ID number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable
14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR)	: Not applicable
IMDG Transport hazard class(es) (IMDG)	: Not applicable
IATA Transport hazard class(es) (IATA)	: Not applicable
ADN Transport hazard class(es) (ADN)	: Not applicable
RID Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available

14.6. Special precautions for user

Overland transport No data available

Transport by sea

No data available

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Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

Water hazard class (WGK) Hazardous Incident Ordinance (12. BImSchV)	 WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1). Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format	Modified	
	Supersedes	Modified	
	Revision date	Modified	
1.1	UFI on SDS 1.1	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
3	Composition/information on ingredients	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

Other information

: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2

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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.