

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 24/05/2022 Version: 1.0

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

1.1. Product identifier

Product form	: Mixture
Product name	: WOLF VITALTECH 10W-50 F-A
Product code	: 65650
Type of product	: WOLF
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

1.4. Emergency telephone number

Emergency number

: 0032 (0)3 870 00 00

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

 EUH208 - Contains C14-16-18 Alkylphenol, molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.
 EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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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]
C14-16-18 Alkylphenol	CAS-No.: 1190625-94-5 EC-No.: 931-468-2 REACH-no: 01-2119498288- 19	1 – 1.49	Skin Sens. 1, H317 STOT RE 2, H373
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec- butyl)]bis(dithiophosphate)	CAS-No.: 93819-94-4 EC-No.: 298-577-9 REACH-no: 01-2119543726- 33	0.1 – 0.99	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	CAS-No.: 28629-66-5 EC-No.: 249-109-7 REACH-no: 01-2119953278- 28	0.1 – 0.99	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
molybdenum polysulphide long chain alkyl dithiocarbamate complex	EC-No.: 457-320-2 REACH-no: 01-0000019337- 66	0.1 – 0.99	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec- butyl)]bis(dithiophosphate)	CAS-No.: 93819-94-4 EC-No.: 298-577-9 REACH-no: 01-2119543726- 33	(6.25 ≤C < 100) Skin Irrit. 2, H315 (10 ≤C < 12.5) Eye Irrit. 2, H319 (12.5 ≤C < 100) Eye Dam. 1, H318
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	CAS-No.: 28629-66-5 EC-No.: 249-109-7 REACH-no: 01-2119953278- 28	(15 ≤C < 100) Eye Dam. 1, H318 (15 ≤C < 100) Eye Irrit. 2, H319

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.	

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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.	
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, protective 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	 Avoid all unnecessary exposure. Both local exhaust and general room ventilation are usually required. 	
Handling temperature	: <40 °C	
Hygiene measures	: 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 any incompatibilities		
Storage temperature Storage area	 : ≤ 40 °C : Store in dry, cool, well-ventilated area. 	
7.3. Specific end use(s)		

No additional information available

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SECTION 8: Exposure controls/personal protection 8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

molybdenum polysulphide long chain alkyl dithiocarbamate complex		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Molybdenum polysulphide long chain alkyl dithiocarbamate complex	
IOEL TWA	10 mg/m ³	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	5 mg/m³	
ACGIH OEL STEL	10 mg/m ³	

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

Additional information

: 5 mg/m3 for oil mists (TWA, 8h-workday) recommended, based upon the ACGIH TLV (Analysis according to US NIOSH Method 5026, NIOSH Manual of Analytical Methods, 3rd Edition).

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

Eye protection: Standard EN 166 - Personal eye-protection.

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

SECTION 9: Physical and chemical properties

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8.2.3. Environmental exposure controls

No additional information available

Physical state	: Liquid
Appearance	: Oily liquid.
Colour	: brown.
Ddour	: Characteristic.
Ddour threshold	: No data available
bН	: 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	: 232 °C @ ASTM D92
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
/apour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 854 kg/m³ @15°C
Solubility	: Slightly soluble, the product remains on the water surface.
Partition coefficient n-octanol/water (Log Pow)	: No data available
/iscosity, kinematic	: 107 mm²/s @ 40°C
/iscosity, dynamic	: No data available
Explosive properties	: No data available
Dxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

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.

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SECTION 11: Toxicological information		
11.1 Information on toxicological effects		
Acute toxicity (dermal) :	Not classified Not classified Not classified	
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)	
LD50 oral rat	2600 mg/kg 67/548/EEG annex V	
LD50 dermal rabbit	> 3160 mg/kg OECD 402	
LC50 Inhalation - Rat	> 2 mg/l 1h - OECD 403 - read across	
Zinc bis(0,0-diisooctyl) bis(dithiophosphate)	(28629-66-5)	
LD50 oral rat	3760 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
molybdenum polysulphide long chain alkyl di	thiocarbamate complex	
LD50 oral rat	> 2000 mg/kg OECD 425	
LD50 dermal rat	> 2000 mg/kg OECD 402	
Skin corrosion/irritation :	Not classified	
molybdenum polysulphide long chain alkyl di	thiocarbamate complex	
Skin corrosion/irritation, rabbit	(4 Hours, (OECD 404 method), Causes skin irritation.)	
Serious eye damage/irritation:Respiratory or skin sensitisation:	Not classified Not classified. (The ingredient "C14-16-18 Alkyl Phenol" is an impurity of a substance present in the product. Based on tests performed on this substance, the skin sensitizer classification of the impurity "C14-16-18 Alkyl Phenol" is overruled.)	
molybdenum polysulphide long chain alkyl di	thiocarbamate complex	
Respiratory or skin sensitisation, Guinea pig	(OPPTS 870.2600, Causes sensitisation)	
Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:STOT-single exposure:STOT-repeated exposure:C14-16-18 Alkylphenol (1190625-94-5)	Not classified Not classified Not classified Not classified Not classified	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
	Not classified	
WOLF VITALTECH 10W-50 F-A		
Viscosity, kinematic	107 mm²/s @ 40°C	

SECTION 12: Ecological information

12.1. Toxicity Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic) Zinc bis[0-(-6-methylheptyl)] bis[0-(sec-butyl)]bis(dithiophosphate) (93819-94-4) LC50 - Fish [1] 4.5 mg/l OECD 203 (Oncorhynchys mykiss) 96h

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Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)		
EC50 - Crustacea [1]	5.4 mg/l OECD 202 (Daphnia magna) 48h	
EC50 72h - Algae [1]	2.1 mg/I OECD 201 (Selenastrum capricornutum) 48h	
Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5)		
LC50 - Fish [1]	3.8 mg/I OECD 203 (Oncorhynchus mykiss)	
EC50 - Crustacea [1]	510 mg/l OECD 202 (Daphnia magna)	
EC50 72h - Algae [1]	240 mg/I OECD 201 (Desmodesmus subspicatus)	
NOEC (acute)	1.8 mg/I OECD 203 (Oncorhynchus mykiss)	
molybdenum polysulphide long chain alkyl dithiocarbamate complex		
EC50 - Crustacea [1]	50 mg/l OECD 202 (Daphnia magna, 48h)	
EC50 72h - Algae [1]	14 mg/l OECD 201 (Pseudokirchneriella subcapitata)	
NOEC (acute)	94.8 mg/l OECD 203 (Oncorhynchus mykiss, 96h)	
NOEC chronic crustacea	100 mg/l @21d - Daphnia Magna (OECD 211)	
NOEC chronic algae	4.05 mg/l	

12.2. Persistence and degradability

WOLF VITALTECH 10W-50 F-A		
Persistence and degradability	Not soluble in water, so only minimally biodegradable.	
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)		
Biodegradation	1.5 % OECD 301B 28d	
Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5)		
Persistence and degradability	Not readily biodegradable.	
molybdenum polysulphide long chain alkyl di	thiocarbamate complex	
Persistence and degradability	Not readily biodegradable.	
Biodegradation	23 % OECD 301 (29d)	
12.3. Bioaccumulative potential		
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)		
Partition coefficient n-octanol/water (Log Pow) 0.9 @23°C		
Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (28629-66-5)		
Partition coefficient n-octanol/water (Log Pow)	2.87 @20°C	
molybdenum polysulphide long chain alkyl dithiocarbamate complex		
BCF - Fish [1]	88 OECD 305 (Cyprinus carpio, 25°C)	
Bioconcentration factor (BCF REACH)	88 OECD 305 (Cyprinus carpio - @25°C - 0,05mg/l)	
12.4. Mobility in soil		
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)		

Ecology - soil Adsorbs into the soil.		
	Ecology - soil	Adsorbs into the soil.

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molybdenum polysulphide long chain alkyl dithiocarbamate complex		
Ecology - soil Adsorbs into the soil.		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. 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	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 Not applicable Not applicable Not applicable Not applicable Not applicable
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
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

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14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea Not applicable

Air transport

Not applicable

Inland waterway transport Not applicable

Rail transport

Not applicable

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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 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)	:	WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) is listed
SZW-lijst van mutagene stoffen	:	Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	None of the components are listed
SZW-lijst van reprotoxische stoffen –	:	None of the components are listed
Vruchtbaarheid		
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	None of the components are listed
Denmark		
Danish National Regulations	:	Pregnant/breastfeeding women working with the product must not be in direct contact with the product

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Switzerland

Storage class (LK)

: LK 10/12 - Liquids

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				
Abbreviations and ac	ronyms:			
	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.

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
EUH208	Contains C14-16-18 Alkylphenol, molybdenum polysulphide long chain alkyl dithiocarbamate complex. May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	

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Full text of H- and EUH-statements:			
H319	19 Causes serious eye irritation.		
H373	73 May cause damage to organs through prolonged or repeated exposure.		
H411	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		
Skin Sens. 1	Skin sensitisation, Category 1		
STOT RE 2	Specific target organ toxicity – Repeated exposure, 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.