Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010 Date of issue:11/02/2013 Revision date:23/01/2017 Supersedes:21/01/2016

Version: 4.1

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

1.1. Product identifier

Product form : Mixture

Product name : WOLF OFFICIALTECH 5W20 MS-FE

Product code : 65612
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 use, Professional use, Consumer use

Industrial/Professional use spec : Non-dispersive use

Used in closed systems

Function or use category : Lubricants and additives

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 - België T 0032 (0)3 870 00 00 - F 0032 (0)3 870 00 99 info@wolfoil.com

1.4. Emergency telephone number

Emergency number : +32 14 58 45 45 (NL/EN/FR/DE)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

2.2. Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request

EUH208 - Contains C14-16-18 Alkylphenol, molybdenum polysulphide long chain alkyl

dithiocarbamate complex. May produce an allergic reaction

Child-resistant fastening : No Tactile warning : No

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Baseoil - unspecified	(CAS No) 72623-87-1 (EC no) 276-38-4 (EC index no) 649-483-00-5 (REACH-no) 01-2119474889-13	65 - 85	Asp. Tox. 1, H304

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Bis(nonylphenyl)amine	(CAS No) 36878-20-3 (EC no) 253-249-4 (REACH-no) 01-2119488911-28	1 - 2,49	Aquatic Chronic 4, H413
C14-16-18 Alkylphenol	(REACH-no) 01-2119498288-19	1 - 2,49	Skin Sens. 1, H317 STOT RE 2, H373
molybdenum polysulphide long chain alkyl dithiocarbamate complex	(EC no) 457-320-2 (REACH-no) 01-0000019337-66	0,1 - 0,24	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation : Not expected to require first aid measures. First-aid measures after skin contact : Wash skin with mild soap and water.

First-aid measures after eve contact : In case of eve contact, immediately rinse with clean water for 10-15 minutes. : Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention. First-aid measures after ingestion

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal

Symptoms/injuries after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use. Symptoms/injuries after eye contact

: Not expected to present a significant eye contact hazard under anticipated conditions of normal

: Not expected to present a significant ingestion hazard under anticipated conditions of normal Symptoms/injuries after ingestion

use.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Water fog. Foam. Powder. Dry chemical product.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

No additional information available

5.3. **Advice for firefighters**

Precautionary measures fire : Exercise caution when fighting any chemical fire. Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : 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.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up

For containment : Impound and recover large spill by mixing it with inert granular solids.

Methods for cleaning up : Detergent. Take up liquid spill into absorbent material sand, saw dust, kieselguhr.

Other information : Spill area may be slippery. Use suitable disposal containers.

Reference to other sections

No additional information available

SECTION 7: Handling and storage

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

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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 : < 40 °C

Storage area : Store in dry, cool, well-ventilated area.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

molybdenum polysulphide lo	ong chain alkyl dithiocarbamate complex	
EU	IOELV TWA (mg/m³)	10 mg/m³

: 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).

8.2. Exposure controls

Additional information

Personal protective equipment : Safety glasses. Gloves.

Hand protection : Permeation time: minimum >480min long term exposure; material / thickness [mm]: >0,35 mm.

Nitrile rubber (NBR) /

Skin and body protection : No special clothing/skin protection equipment is recommended under normal conditions of use

Respiratory protection : No special respiratory protection equipment is recommended under normal conditions of use

with adequate ventilation.





SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : Oily liquid. Colour Yellow-brown. Odour Characteristic. Odour threshold No data available : No data available pΗ : No data available Relative evaporation rate (butylacetate=1) Melting point No data available Freezing point : No data available Boiling point : No data available : > 200 °C @ ASTM D92 Flash point 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 : 851 kg/m³ @15°C

Solubility : Slightly soluble, the product remains on the water surface.

Log Pow : No data available
Viscosity, kinematic : 42 mm²/s @ 40°C
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : No data available

9.2. Other information

No additional information available

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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 toxicological effects

Acute toxicity : Not classified

Bis(nonylphenyl)amine (36878-20-3)	
LD50 oral rat	> 5000 mg/kg OECD 401
LD50 dermal rat > 2000 mg/kg OECD 402	

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard : Not classified

WOLF OFFICIALTECH 5W20 MS-FE	
Viscosity, kinematic	42 mm²/s @ 40°C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Bis(nonyipnenyi)amine (36878-20-3)		
LC50 fish 1	> 100 mg/l OECD 203 (Danio rerio @96h)	
EC50 Daphnia 1	> 100 mg/l OECD 202 (Daphnia magna)	
EC50 72h algae (1)	> 100 mg/l OECD 201 (Desmodesdus subspicatus)	
molybdenum polysulphide long chain alkyl dithiocarbamate complex		
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EC50 Daphnia 1	50 mg/l OECD 202 (Daphnia magna, 48h)	
EC50 Daphnia 1 NOEC (acute)	50 mg/l OECD 202 (Daphnia magna, 48h) 94,8 mg/l OECD 203 (Oncorhynchus mykiss, 96h)	

12.2. Persistence and degradability

WOLF OFFICIALTECH 5W20 MS-FE	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.
Bis(nonylphenyl)amine (36878-20-3)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 % @28d
molybdenum polysulphide long chain alkyl dithiocarbamate complex	
Persistence and degradability	Not readily biodegradable.

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molybdenum polysulphide long chain a	alkyl dithiocarbamate complex			
Biodegradation	22,75 % OECD 301 (29d)			
12.3. Bioaccumulative potential	2.3. Bioaccumulative potential			
Bis(nonylphenyl)amine (36878-20-3)				
Log Pow	> 7,6			
Bioaccumulative potential	Potential to bioaccumulate.			
molybdenum polysulphide long chain a	alkyl dithiocarbamate complex			
BCF fish 1	88 OECD 305 (Cyprinus carpio, 25°C)			
12.4. Mobility in soil				
Bis(nonylphenyl)amine (36878-20-3)				
Ecology - soil	Adsorbs into the soil.			
molybdenum polysulphide long chain a	alkyl dithiocarbamate complex			
Ecology - soil	Adsorbs into the soil.			
12.5. Results of PBT and vPvB asses	sment			
No additional information available				
12.6. Other adverse effects				
No additional information available				
SECTION 13: Disposal considera	ations			
13.1. Waste treatment methods				
Additional information	: Dispose in a safe manner in accordance with local/national regulations.			
SECTION 14: Transport informat	ion			
In accordance with ADR / RID / IMDG / IAT.				
14.1. UN number				
Not regulated for transport				
14.2. UN proper shipping name				
Proper Shipping Name (ADR)	: Not applicable			
Proper Shipping Name (IMDG)	: Not applicable			
Proper Shipping Name (IATA)	: Not applicable			
Proper Shipping Name (ADN)	: Not applicable			
Proper Shipping Name (RID)	: 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			
Transport Hazard Glass(65) (NID)	. 11οι αρριιοασίο			
14.4. Packing group				
Packing group (ADR)	: Not applicable			
Packing group (IMDG)	: Not applicable			
Packing group (IATA)	: Not applicable			
Packing group (ADN)	: Not applicable			
Packing group (RID)	: Not applicable			
14.5. Environmental hazards				
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Marine pollutant : No

Other information : No supplementary information available

Special precautions for user 14.6.

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

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

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**

Germany

VwVwS Annex reference : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex

12th Ordinance Implementing the Federal

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Immission Control Act - 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

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed

: None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Pregnant/breastfeeding women working with the product must not be in direct contact with the Recommendations Danish Regulation

product

n on ingredients

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:			
1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
3.2	Composition/informatio	Modified	

Abbreviations and acronyms:

	ACGIH: American Conference of Governmental Industrial Hygienists

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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:

mono.
Hazardous to the aquatic environment — Chronic Hazard, Category 3
Hazardous to the aquatic environment — Chronic Hazard, Category 4
Aspiration hazard, Category 1
Skin corrosion/irritation, Category 2
Sensitisation — Skin, Category 1
Sensitisation — Skin, category 1B
Specific target organ toxicity — Repeated exposure, Category 2
May be fatal if swallowed and enters airways
Causes skin irritation
May cause an allergic skin reaction
May cause damage to organs through prolonged or repeated exposure
Harmful to aquatic life with long lasting effects
May cause long lasting harmful effects to aquatic life
Contains . May produce an allergic reaction
Safety data sheet available on request

SDS EU (REACH Annex II)

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

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