### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 6/01/2019 Revision date: 6/01/2019 Version: 1.0

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

1.1. Product identifier

Product form

Product name : WOLF ECTOTECH 0W16 FE

Product code : 16103 Product group : Blend

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

1.2.1. Relevant identified uses

: Industrial use, Professional use, Consumer use Main use category

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

#### 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

#### 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** : EUH210 - Safety data sheet available on request.

#### 2.3. Other hazards

No additional information available

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

#### 3.1. Substance

Not applicable

### 3.2. Mixture

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]
Baseoil - unspecified	(CAS No) 64742-54-7 (EC no) 265-157-1 (EC index no) 649-467-00-8 (REACH-no) 01-2119484627-25	50 - 80	Asp. Tox. 1, H304
Baseoil - unspecified	(CAS No) 64742-54-7 (EC no) 265-157-1 (EC index no) 649-467-00-8 (REACH-no) 01-2119484627-25	10 - 24	Asp. Tox. 1, H304
Amines, polyethylenepoly-, reaction products with 1,3-dioxolan-2-one and syccinic anhydride monopolyisobutenyl derivs	(CAS No) 147880-09-9 (EC no) 604-611-9	1 - 2,4	Aquatic Chronic 4, H413
Bis(nonylphenyl)amine	(CAS No) 36878-20-3 (EC no) 253-249-4 (REACH-no) 01-2119488911-28	1 - 2,4	Aquatic Chronic 4, H413

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Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S']-, (T-4)-	(CAS No) 4259-15-8 (EC no) 224-235-5	0,1 - 0,99	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts	(CAS No) 68784-31-6 (EC no) 272-238-5 (REACH-no) 01-2119657973-23	0,1 - 0,49	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Dodecylphenol, mixed isomers (branched)	(CAS No) 121158-58-5 (EC no) 310-154-3 (REACH-no) 01-2119513207-49	0,01 - 0,03	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 1B, H360 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

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

#### 4.1. 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 eye contact : In case of eye contact, immediately rinse with clean water for 10-15 minutes.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Get immediate medical advice/attention.

#### 4.2. 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 use

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 use.

Symptoms/injuries 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 : Water fog. Foam. Powder. Dry chemical product.

Unsuitable extinguishing media : 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 : 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.

#### 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 : 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.

#### 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

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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

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).

#### 8.2. Exposure controls

#### 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.

#### Personal protective equipment symbol(s):





#### **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
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available

Melting point : ≈ °C

Freezing point : No data available Boiling point : No data available : > 150 °C @ ASTM D92 Flash point Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) No data available No data available Vapour pressure Relative vapour density at 20 °C : No data available Relative density : No data available : 847 kg/m³ @15°C Density

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

Log Pow : No data available
Viscosity, kinematic : 35 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 (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

#### Baseoil - unspecified (64742-54-7)

Bussell unopermise (04142 04 1)	
LD50 oral	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h

#### Bis(nonylphenyl)amine (36878-20-3)

, , , , , , , , , , , , , , , , , , , ,	
LD50 oral rat	> 5000 mg/kg OECD 401
LD50 dermal rat	> 2000 mg/kg OECD 402

### Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S']-, (T-4)- (4259-15-8)

LD50 oral rat	3100 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
Skin corrosion/irritation	: Not classified	

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

Additional information : 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

### Baseoil - unspecified (64742-54-7)

NOAEL (dermal, rat/rabbit)	> 2000 mg/kg bodyweight

Specific target organ toxicity (repeated exposure) : Not classified

### Baseoil - unspecified (64742-54-7)

baseon - unspecified (04742-34-7)	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight/day
NOAEL (subacute, oral, animal/male, 28 days)	> 220 mg/kg bodyweight
NOAEL (subchronic, oral, animal/male, 90 days)	> 980 mg/kg bodyweight

Aspiration hazard : Not classified

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WOLF ESTOTESHOW TOTE		
Viscosity, kinematic	35 mm²/s @ 40°C	

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<b>SECTION 12:</b>	Ecological in	formation

12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

### Baseoil - unspecified (64742-54-7)

LC50 fish 1 > 100 mg/l

(7-)(	
LC50 fish 1	100 mg/l OECD 203 (Danio rerio @96h)
EC50 Daphnia 1	> 100 mg/l OECD 202 (Daphnia magna @48h)
EC50 other aquatic organisms 1	> 100 mg/l OECD 201 (Desmodesmus subspicatus @72h)

### Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S']-, (T-4)- (4259-15-8)

LC50 fish 1	10 - 35 mg/l 96h Pimephales promelas (semi static)
LC50 fish 2	1 - 5 mg/l
EC50 Daphnia 1	1 - 1,5 mg/l 48h Daphnia magna
EC50 other aquatic organisms 1	1 - 5 mg/l 96h Pseudokirchneriella subcapitata

### 12.2. Persistence and degradability

#### **WOLF ECTOTECH 0W16 FE**

Persistence and degradability Not soluble in water, so only minimally biodegradable.

### Bis(nonylphenyl)amine (36878-20-3)

Biodegradation 1 % @28d

### Dodecylphenol, mixed isomers (branched) (121158-58-5)

Biodegradation 25 % Sturm-test @28d

### 12.3. Bioaccumulative potential

### Baseoil - unspecified (64742-54-7)

Bioaccumulative potential No data available.

#### Bis(nonylphenyl)amine (36878-20-3)

Log Pow > 7,6

### Dodecylphenol, mixed isomers (branched) (121158-58-5)

Bioconcentration factor (BCF REACH)	2,9 @27d
Log Kow	7,1 @0,1d

### 12.4. Mobility in soil

### Bis(nonylphenyl)amine (36878-20-3)

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 / RID / IMDG / IATA / ADN

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14.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

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

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

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.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

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#### 15.1.2. National regulations

#### Germany

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

Annex 1)

12th Ordinance Implementing the Federal

Immission Control Act - 12.BlmSchV

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

Netherlands

SZW-lijst van kankerverwekkende stoffen : Baseoil - unspecified, Baseoil - unspecified, Phosphorodithioic acid, mixed O,O-bis(sec-Bu

and 1,3-dimethylbutyl) esters, zinc salts, Dodecylphenol, mixed isomers (branched) are

listed

SZW-lijst van mutagene stoffen : Baseoil - unspecified, Phosphorodithioic acid, mixed O,O-bis(sec-Bu

and 1,3-dimethylbutyl) esters, zinc salts, Dodecylphenol, mixed isomers (branched) are

listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

: None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling

: None of the components are listed

#### 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 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.		

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1

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Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
EUH210	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