### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 30/03/2012 Revision date: 25/04/2018 Supersedes: 20/05/2016 Version: 4.1

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

### **Product identifier**

Product form : Mixture

: WOLF ECOTECH 0W40 FE Product name

: 16106 Product code 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

### Uses advised against

No additional information available

#### Details of the supplier of the safety data sheet

WOLF OIL CORPORATION N.V. Georges Gilliotstraat, 52 2620 Hemiksem - België

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info@wolfoil.com

#### **Emergency telephone number**

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

#### **SECTION 2: Hazards identification**

#### 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. May produce an allergic reaction

EUH210 - Safety data sheet available on request

#### Other hazards

No additional information available

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

#### **Substance**

Not applicable

#### 3.2. **Mixture**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-Decene, homopolymer, hydrogenated	(CAS No) 58037-01-4 (EC no) 500-183-1 (REACH-no) 01-2119486452-34	35 - 55	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	1 - 4,99	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
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	1 - 2,49	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411
C14-16-18 Alkylphenol	(EC no) 931-468-2 (REACH-no) 01-2119498288-19	1 - 2,49	Skin Sens. 1, H317 STOT RE 2, H373

#### 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)="" 2,="" <="" h315<br="" irrit.="" skin="">( 10 =<c 12,5)="" 2,="" <="" eye="" h319<br="" irrit.="">( 12,5 =<c 1,="" 100)="" <="" dam.="" eye="" h318<="" th=""></c></c></c>

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

asc.

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

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### 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 : < 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.

: Liquid



Physical state



### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance : Oily liquid. Colour : Yellow-brown. Odour : Characteristic. Odour threshold No data available рΗ No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available No data available Freezing point Boiling point : No data available Flash point : > 210 °C @ ASTM D92 : No data available

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 : 844 kg/m³ @15°C

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

Log Pow : No data available

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Viscosity, kinematic : 80 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

### **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.

LC50 inhalation rat (mg/l)

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

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

Acute toxicity : Not classified

, , , , , , , , , , , , , , , , , , , ,	
LD50 oral rat	> 5000 mg/kg OECD 401
LD50 dermal rat	> 2000 mg/kg OECD 402
1-Decene, homopolymer, hydrogenated (58037-01-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg

Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-but	yl)]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 (mg/l)	> 2 mg/l 1h - OECD 403 - read across

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)

5,2 mg/l/4h

Respiratory or skin sensitisation : Not classified 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 exposure) : Not classified

Aspiration hazard : Not classified

Aspiration nazaru .	. Not dassilied
WOLF ECOTECH 0W40 FE	
Viscosity, kinematic	80 mm²/s @ 40°C

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Bis(nonylphenyl)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)

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Bis(nonylphenyl)amine (36878-20-3)		
EC50 72h algae (1)	> 100 mg/l OECD 201 (Desmodesdus subspicatus)	
1-Decene, homopolymer, hydrogenated (5803	37-01-4)	
LC50 fish 1	> 1000 mg/l	
LC50 fish 2	> mg/l	
LC50 other aquatic organisms 1	> 1000 mg/l scenedes quadricauda @3hr	
EC50 72h algae (1)	> 1000 mg/l waterflea @2DY	
EC50 72h algae (2)	> 125 mg/l waterflea @21DY	
NOEC (acute)	125 mg/l @Waterflea @21DY	
NOEC chronic algae	> 1000 @scenedesmus quadriacauda @3hr	
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)		
LC50 fish 1	4,5 mg/l OECD 203 (Oncorhynchys mykiss) 96h	
EC50 Daphnia 1	5,4 mg/l OECD 202 (Daphnia magna) 48h	
EC50 72h algae (1)	2,1 mg/l OECD 201 (Selenastrum capricornutum) 48h	

#### Persistence and degradability 12.2.

WOLF ECOTECH 0W40 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
1-Decene, homopolymer, hydrogenated (58037-01-4)	
Biodegradation	2 % 28DY @ OECD TG 301D
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)	
Biodegradation	1,5 % OECD 301B 28d

#### **Bioaccumulative potential** 12.3.

Bis(nonylphenyl)amine (36878-20-3)	
Log Pow	> 7,6
Bioaccumulative potential	Potential to bioaccumulate.
1-Decene, homopolymer, hydrogenated (58037-01-4)	
Log Kow	> 6,5
Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4)	
Log Pow	0,9 @23°C

#### Log Pow **Mobility in soil** 12.4.

Bis(nonylphenyl)amine (36878-20-3)	
Ecology - soil	Adsorbs into the soil.

#### Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate) (93819-94-4) Adsorbs into the soil. Ecology - soil

### Results of PBT and vPvB assessment

No additional information available

#### Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

#### 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

UN-No. (ADR)
UN-No. (ADR)

**UN** number

14.1.

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

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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

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

#### 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

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#### 15.1.2. National regulations

#### Germany

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

4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

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

#### Netherlands

SZW-lijst van kankerverwekkende stoffen : Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate),Baseoil - unspecified are

listed

SZW-lijst van mutagene stoffen : Zinc bis[O-(-6-methylheptyl)] bis[O-(sec-butyl)]bis(dithiophosphate),Baseoil - unspecified 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

#### Denmark

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

product

#### 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
	Revision date	Modified	
	Supersedes	Modified	
	Comments (on top of composition)	Added	
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.

#### Full text of H- and EUH-statements:

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		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
Skin Sens. 1	Sensitisation — Skin, Category 1		
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2		
H304	May be fatal if swallowed and enters airways		
H315	Causes skin irritation		
H317	May cause an allergic skin reaction		
H318	Causes serious eye damage		
H373	May cause damage to organs through prolonged or repeated exposure		
H411	Toxic to aquatic life with long lasting effects		
H413	May cause long lasting harmful effects to aquatic life		
EUH208	Contains . May produce an allergic reaction		
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

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