Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 21/06/2010 Revision date: 12/11/2018 Supersedes: 14/01/2016 Version: 5.0

SECTION 1: Ider	ntification of the substance/mixture and of the company/undertaking	
1.1. Product id		
Product form	: Mixture	
Product name	: CHAMPION EP GEAR OIL ISO 220	
Product code	: 4110	
Product group	: Blend	
1.2. Relevant id	lentified uses of the substance or mixture and uses advised against	
1.2.1. Relevant id	lentified uses	
Main use category	: Industrial use, Professional use, Consumer use	
Industrial/Professiona	l use spec : Non-dispersive use Used in closed systems	
Function or use categ	ory : Lubricants and additives	
1.2.2. Uses advis	ed against	
No additional informa	tion available	
1.3. Details of t	he supplier of the safety data sheet	
WOLF OIL CORPOR Georges Gilliotstraat, 2620 Hemiksem - Be T 0032 (0)3 870 00 0 info@wolfoil.com	52	
1.4. Emergency	y telephone number	
Emergency number	: +32 14 58 45 45 (NL/EN/FR/DE)	
SECTION 2: Haz	ards identification	
	ards identification ion of the substance or mixture	
2.1. Classificat		
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2.1. Classificat Classification accor Not classified	ion of the substance or mixture ding to Regulation (EC) No. 1272/2008 [CLP] emical, human health and environmental effects	
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3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polysulphides, di-tert-Bu	(CAS No) 68937-96-2 (EC no) 273-103-3 (REACH-no) 01-2119540515-43	0,1 - 0,99	Skin Sens. 1B, H317 Aquatic Chronic 3, H412

Safety Data Sheet

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

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	(EC no) 931-384-6 (REACH-no) 01-2119493620-38	0,1 - 0,24	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	
N-Cis-9-octadecenyl-1,3-propanediamine	(CAS No) 7173-62-8 (EC no) 230-528-9 (REACH-no) 01-2119487002-46	0,01 - 0,024	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410	
Specific concentration limits:				
Name	Product identifier	Specific con	Specific concentration limits	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	(EC no) 931-384-6 (REACH-no) 01-2119493620-38	(C >= 50) Eye	Dam. 1, H318	

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 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 eff	fects, 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 Symptoms/injuries after eye contact	 Not expected to present a significant skin hazard under anticipated conditions of normal use. 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 media No additional information available	cal attention and special treatment needed
SECTION 5: Firefighting measures	
5.1.Extinguishing mediaSuitable extinguishing mediaUnsuitable extinguishing media	Water fog. Foam. Powder. Dry chemical product.Do not use a heavy water stream.
5.2. Special hazards arising from the s	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 me	asures
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. No	tify authorities if product enters sewers or public waters.
6.3. Methods and material for contain	
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	

Safety Data Sheet

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

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, includ	ing 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).

Personal protective equipment:

Exposure controls

Safety glasses. Gloves.

Hand protection:

8.2.

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 an	d chemical properties	
Physical state	: Liquid	
Appearance	: Oily liquid.	
Colour	: Yellow-brown.	
Odour	: Characteristic.	
Odour threshold	: No data available	
рН	: 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	: > 200 °C @ ASTM D92	
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	: 896 kg/m³ @15°C	
Solubility	: Slightly soluble, the product remains on the water surface.	
Log Pow	: No data available	
12/11/2018	EN (English)	3/7

Safety Data Sheet

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

according to Regulation (EC) No. 1907/2006 (REACF	1) with its amenument Regulation (EO) 2013/830
Viscosity, kinematic	: 220 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 reactiv	ity
10.1. Reactivity	
None under normal conditions.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	IS
None under normal conditions.	
10.4. Conditions to avoid	
No data available.	
10.5. Incompatible materials	
Strong oxidizers. acids. Bases.	
10.6. Hazardous decomposition produ	ıcts
NI I 122	

None under normal conditions.

SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
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
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Reaction products of 4-methyl-2-pentanol a salted by amines, C12-14- tert-alkyl	nd diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day @28d (OECD 407)
Aspiration hazard	: Not classified
CHAMPION EP GEAR OIL ISO 220	

SECTION 12: Ecological information

12.1. Toxicity

Viscosity, kinematic

, in the second s	
Polysulphides, di-tert-Bu (68937-96-2)	
EC50 Daphnia 1	63 mg/l @2d
EC50 other aquatic organisms 1	> mg/l
EC50 72h algae (2)	> 100 mg/l
EC50 96h algae (1)	> 10000 mg/l Slib @0.1DY
Reaction products of 4-methyl-2-penta salted by amines, C12-14- tert-alkyl	nol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and
LC50 fish 1	24 mg/l @4d Oncorhynchus mykiss
LC50 fish 2	8,5 mg/l Pimephales promelas @4d
EC50 Daphnia 1	91,4 mg/l Daphnia magna
EC50 72h algae (1)	6,4 mg/l Selenastrum capricornutum
NOEC (chronic)	3,2 mg/l Oncorhynchus mykiss @4d
2/11/2018	EN (English) 4/

220 mm²/s @ 40°C

Safety Data Sheet

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

	d diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and
salted by amines, C12-14- tert-alkyl	
NOEC chronic crustacea	0,12 mg/l Daphnia magna @2d
NOEC chronic algae	1,7 mg/l Selenastrum capricornutum @4d
N-Cis-9-octadecenyl-1,3-propanediamine (71	73-62-8)
LC50 fish 1	> 0,1 mg/l (Brachydanio rerio)
EC50 Daphnia 1	> 0,01 mg/l (Daphnia magna)
EC50 72h algae (1)	> 0,01 mg/l
NOEC chronic crustacea	> 0,001 @21DY (Daphnia maga)
12.2. Persistence and degradability	
CHAMPION EP GEAR OIL ISO 220	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.
Polysulphides, di-tert-Bu (68937-96-2)	
Biodegradation	13 % % @OECD TG @28d
	d diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and
BOD (% of ThOD)	3,6 % ThOD @28d inherent sediment
Biodegradation	7,4 % Sturm (28d) OECD TG 301B
12.3. Bioaccumulative potential	
Polysulphides, di-tert-Bu (68937-96-2)	
Log Kow	6
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessmer	n
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideration	S
13.1. Waste treatment methods	
Additional information	: Dispose in a safe manner in accordance with local/national regulations.
CECTION 44. Treasure attictory	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IATA / AD	DN .
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
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
12/11/2018	EN (English) 5/7

Safety Data Sheet

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

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

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

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	: Polysulphides, di-tert-Bu is listed		
SZW-lijst van mutagene stoffen	: Polysulphides, di-tert-Bu is 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		

Safety Data Sheet

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

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

	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
her information	: The information in this SDS was obtained from sources which we believe are reliable.

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-stater	nents:
Acute Tox. 4 (Oral)	Acute toxicity (oral), 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
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Sensitisation — Skin, Category 1
Skin Sens. 1B	Sensitisation — Skin, category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H372	Causes damage to organs through prolonged or repeated exposure
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
H412	Harmful to aquatic life with long lasting effects
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