

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 21/06/2010 Revision date: 09/01/2024 Supersedes version of: 02/10/2023 Version: 6.3

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

1.1. Product identifier

Product form	: Mixture
Product name	: CHAMPION EP GEAR OIL ISO 220
Product code	: 4110
Type of product	: CHAMPION
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

CHAMPION CHEMICALS N.V.
Georges Gilliotstraat, 52
2620 Hemiksem, Antwerpen
België
T 0032 (0)3 870 00 00, F 0032 (0)3 870 00 99
msds@wolfoil.com, https://www.championlubes.com

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]

: EUH210 - Safety data sheet available on request.

2.3. Other hazards

EUH-statements

Contains no PBT/vPvB substances $\ge 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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]
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
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	0.1 – 0.49	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
(Z)-N-octadecenylpropane-1,3-diamine	CAS-No.: 7173-62-8 EC-No.: 230-528-9 REACH-no: 01-2119487002- 46	0.01 – 0.024	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Methyl-1H-benzotriazole	CAS-No.: 29385-43-1 EC-No.: 249-596-6 REACH-no: 01-2119979081- 35	0.0099	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Repr. 2, H361 Aquatic Chronic 2, H411

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Polysulphides, di-tert-Bu	CAS-No.: 68937-96-2 EC-No.: 273-103-3 REACH-no: 01-2119540515- 43	(46 ≤ C < 100) Skin Sens. 1B, H317
Phosphoric acid ester amine salt	EC-No.: 931-384-6 REACH-no: 01-2119493620- 38	(9.39 ≤ C < 100) Skin Sens. 1, H317 (50.01 ≤ 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	: 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.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.		

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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		

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

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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

No additional information available

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.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state : Liquid Colour : brown. Appearance : Oily liquid. Odour : Characteristic. Odour threshold : Not available Melting point : Not available Freezing point : Not available : Not available Boiling point : Not available Flammability : Not available Lower explosion limit : Not available Upper explosion limit : 245 °C (ASTM D92) Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available : Not available pН Viscosity, kinematic 220 mm²/s @40°C (ASTM D445) : Solubility : Slightly soluble, the product remains on the water surface. Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C ÷ Not available : 897 kg/m3 @15°C (ASTM D4052) Density Relative density ÷ Not available Relative vapour density at 20°C : Not available Particle characteristics Not applicable :

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

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.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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 hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Methyl-1H-benzotriazole (29385-43-1)	
LD50 oral rat	720 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
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
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Phosphoric acid ester amine salt	
NOAEL (oral, rat, 90 days)	150 mg/kg bodyweight/day @28d (OECD 407)
(Z)-N-octadecenylpropane-1,3-diamine (7173-62-8)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
CHAMPION EP GEAR OIL ISO 220	
Viscosity, kinematic	220 mm²/s @40°C (ASTM D445)
11.2. Information on other hazards	

No additional information available

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)	
Polysulphides, di-tert-Bu (68937-96-2)	
EC50 - Crustacea [1]	63 mg/l
EC50 72h - Algae [2]	> 100 mg/l
Phosphoric acid ester amine salt	
LC50 - Fish [1]	24 mg/l Oncorhynchus mykiss

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Phosphoric acid ester amine salt		
LC50 - Fish [2]	8.5 mg/l Pimephales promelas	
EC50 - Crustacea [1]	91.4 mg/l Daphnia magna	
EC50 96h - Algae [1]	6.4 mg/l Selenastrum capricornutum	
NOEC (chronic)	3.2 mg/l Oncorhynchus mykiss @4d	
NOEC chronic crustacea	0.12 mg/l Daphnia magna @21d	
NOEC chronic algae	1.7 mg/l Selenastrum capricornutum @4d	
(Z)-N-octadecenylpropane-1,3-diamine (7173-62-8)		
LC50 - Fish [1]	> 0.1 mg/l (Brachydanio rerio)	
EC50 - Crustacea [1]	> 0.01 mg/l (Daphnia magna)	
EC50 72h - Algae [1]	> 0.01 mg/l	
NOEC chronic crustacea	> 0.001 mg/l @21d (Daphnia magna)	
Methyl-1H-benzotriazole (29385-43-1)		
LC50 - Fish [1]	25.5 mg/l (Pimephales promelas)	
LC50 - Fish [2]	65 mg/l (Brachydanio rerio)	
LC50 - Other aquatic organisms [1]	180 mg/l	
EC50 - Crustacea [1]	87.4 mg/l (Daphnia magna)	
EC50 - Crustacea [2]	55 mg/l (Daphnia magna)	
EC50 72h - Algae [1]	62 mg/l (Selenastrum capricomutum)	
ErC50 algae	75 mg/l	
NOEC chronic crustacea	18.4 mg/l @21DY (Daphnia magna)	
NOEC chronic algae	30 mg/l	

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)	
Persistence and degradability	Rapidly degradable
Biodegradation	13 % % @OECD TG @28d
Phosphoric acid ester amine salt	
Persistence and degradability	Rapidly degradable
BOD (% of ThOD)	3.6 % ThOD @28d inherent sediment
Biodegradation	7.4 % Sturm (28d) OECD TG 301B
(Z)-N-octadecenylpropane-1,3-diamine (7173-62-8)	
Persistence and degradability	Rapidly degradable
Methyl-1H-benzotriazole (29385-43-1)	
Persistence and degradability	Rapidly degradable
Biodegradation	4 %

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

according to the REACH Regulation (EC) 1907/2006 amended	by Regulation (E0) 2020/070	
12.3. Bioaccumulative potential		
Polysulphides, di-tert-Bu (68937-96-2)		
Partition coefficient n-octanol/water (Log Kow) 6		
Methyl-1H-benzotriazole (29385-43-1)		
Partition coefficient n-octanol/water (Log Kow)	1.71 (≥ 1.079 – ≤ 1.083)	
Bioaccumulative potential	No data available.	
12.4. Mobility in soil		
Methyl-1H-benzotriazole (29385-43-1)		
Ecology - soil	No information available.	
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		
12.7. 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 or ID number		
Not regulated for transport		

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

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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
14.5. Environmental hazards	
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. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 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) List of sensitizing substances (TRGS 907) Hazardous Incident Ordinance (12. BImSchV)	 WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1). Contains sensitizing substances according TRGS 907. Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: Polysulphides, di-tert-Bu is listed
SZW-lijst van mutagene stoffen	: Polysulphides, di-tert-Bu is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
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
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
	Supersedes	Modified	
	Revision date	Modified	
9.1	Flash point	Modified	
9.1	Density	Modified	
9.1	Viscosity, kinematic	Modified	
15.1	Water hazard class (WGK)	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	

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
	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:	
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
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
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
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.
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1

Safety Data Sheet (SDS), EU

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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.