CHAMPION ECO FLOW DSG FLUID

Safety Data Sheet

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

Date of issue: 2/07/2012 Revision date: 25/07/2018 Supersedes: 6/06/2017 Version: 3.2

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

1.1. Product identifier

Product form : Mixture

Product name : CHAMPION ECO FLOW DSG FLUID

Product code : 5080

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

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 4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate. May produce an allergic reaction
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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Baseoil - unspecified	(CAS No) 64742-55-8 (EC no) 265-158-7 (EC index no) 649-468-00-3 (REACH-no) 01-2119487077-29	40 - 60	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	20 - 40	Asp. Tox. 1, H304
Isooctadecanoic acid, reaction products with tetraethylenepentamine	(EC no) 272-225-4 (REACH-no) 01-2119960832-33	1 - 2,49	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Kerosine : distillates, hydrotreated light	(CAS No) 64742-47-8 (EC no) 265-149-8 (EC index no) 649-422-00-2	1 - 2,49	Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
Base oil : distillates hydrotreated light naphtenic (D94/69 p1335) L	(CAS No) 64742-53-6 (EC no) 265-156-6 (EC index no) 649-466-00-2	1 - 2,49	Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304
Reaction product of alkylthioalcohol and substituted phosphorus compound	(EC no) 424-820-7 (REACH-no) 01-0000017126-75	0,1 - 0,5	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	(EC no) 299-434-3	0,1 - 0,5	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	(EC no) No Longer Polymer (REACH-no) 01-0000015551-76	0,1 - 0,25	Skin Corr. 1C, H314 Aquatic Chronic 4, H413

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
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.

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	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	> 180 °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	:	849 kg/m³ @15°C
Solubility	:	Slightly soluble, the product remains on the water surface.
Log Pow	:	No data available
Viscosity, kinematic	:	38 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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Reaction product of alkylthioalcohol and substituted phosphorus compound	
LD50 oral	> 2000 mg/kg 67/548/EEG Annex V,B1
LD50 dermal	> 500 mg/kg 67/548/EEG AnnexV, B3

N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	
LD50 oral rat	< 2000 - 5000 mg/kg

4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
LD50 oral	> 10000 mg/kg

Isooctadecanoic acid, reaction products with tetraethylenepentamine	
LD50 oral rat	> 5000 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
Specific target organ toxicity (single exposure)	:	Not classified

Isooctadecanoic acid, reaction products with tetraethylenepentamine	
NOAEL (oral, rat)	> 1000 mg/kg bodyweight OECD 421

Specific target organ toxicity (repeated exposure)	:	Not classified
Aspiration hazard	:	Not classified

CHAMPION ECO FLOW DSG FLUID	
Viscosity, kinematic	38 mm²/s @ 40°C

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Based on available data, the classification criteria are not met.

Reaction product of alkylthioalcohol and substituted phosphorus compound	
LC50 fish 1	1,5 mg/l OECD203 - Oncorhynchus mykiss
EC50 Daphnia 1	0,09 mg/l OECD 202 - EL50
EC50 72h algae (1)	0,31 mg/l 67/548/EEG Annex V,C3
NOEC (chronic)	0,14 (0,01 - 0,1) mg/l Daphnia

N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	
LC50 fish 1	690 mg/l @96h OECD 203 - Cyprinodon variegatus

4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
LC50 fish 1	> 1000 mg/l 96h Cyprinodon variegatus - OECD 203
LC50 fish 2	> 100 mg/l 96h Oryzias latipes - OECD 203
EC50 Daphnia 1	9,5 mg/l OECD 202
EC50 other aquatic organisms 1	> mg/l
EC50 72h algae (1)	> 100 mg/l Pseudokirchneriella subscapitata - OECD 201

Isooctadecanoic acid, reaction products with tetraethylenepentamine	
LC50 fish 1	> 1000 mg/l OECD 203
EC50 Daphnia 1	> 1000 mg/l OECD 202

12.2. Persistence and degradability

CHAMPION ECO FLOW DSG FLUID	
Persistence and degradability	Not soluble in water, so only minimally biodegradable.

Reaction product of alkylthioalcohol and substituted phosphorus compound	
Persistence and degradability	Not readily biodegradable.
Biodegradation	52,9 % @60d - OECD 301B - 10mg/l

N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	
Persistence and degradability	Not readily biodegradable.

4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
Persistence and degradability	Not readily biodegradable.
Biodegradation	11 - 14 % OECD 301

Isooctadecanoic acid, reaction products with tetraethylenepentamine	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Reaction product of alkylthioalcohol and substituted phosphorus compound	
Bioaccumulative potential	Potential to bioaccumulate.

N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	
Log Pow	> 6

4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
Bioaccumulative potential	Potential to bioaccumulate.

12.4. Mobility in soil

Reaction product of alkylthioalcohol and substituted phosphorus compound	
Ecology - soil	Adsorbs into the soil.

N,N-bis(2-hydroxyethyl)-3-((C16-18) alkoxy)-1-propanamine	
Ecology - soil	Adsorbs into the soil.

4,4'-thiodiethylene hydrogen -2-octodecenylsuccinate	
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

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

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

15.1.2. National regulations

Germany

VwVwS Annex reference	:	Water hazard class (WGK) nwg, Non-hazardous to water (Classification according to VwVwS, Annex 4)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	Isooctadecanoic acid, reaction products with tetraethylenepentamine,Kerosine : distillates, hydrotreated light,Base oil : distillates hydrotreated light naphtenic (D94/69 p1335) L,Baseoil - unspecified,Baseoil - unspecified are listed
SZW-lijst van mutagene stoffen	:	Isooctadecanoic acid, reaction products with tetraethylenepentamine,Kerosine : distillates, hydrotreated light,Base oil : distillates hydrotreated light naphtenic (D94/69 p1335) L,Baseoil - unspecified,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	
3.2	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:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), 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 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
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
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