

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

of the mixture

Husqvarna 4-Stroke OIL 10W-30 Transmission Oil

Registration number

Synonyms None

597 68 70-01 (1 L), 597 68 70-04 (4 L), 597 68 70-20 (200 L) **Product code**

04-July-2019 Issue date

Version number 01 Revision date Supersedes date

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

Identified uses Transmission oil.

Uses advised against Use in accordance with supplier's recommendations.

1.3. Details of the supplier of the safety data sheet

Husqvarna AB Company name

Drottninggatan 2

561 82 Huskvarna, Sweden

Telephone +46 (0)36-14 65 00 Contact person **Accessory Department**

sds.info@husqvarnagroup.com E-mail

1.4. Emergency telephone

number

+1-760-476-3961 (Access code 333721)

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Environmental hazards

long-term aquatic hazard

Hazardous to the aquatic environment,

Category 3

H412 - Harmful to aquatic life with

long lasting effects.

Not classified for health hazards. However, occupational exposure to the mixture or substance(s) **Hazard summary**

may cause adverse health effects. Dangerous for the environment if discharged into

watercourses.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None. Signal word None.

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

Avoid release to the environment. P273

Response Not assigned. Not assigned. Storage

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Husqvarna 4-Stroke OIL 10W-30 Transmission Oil 949437 Version #: 01 Revision date: - Issue date: 04-July-2019

EUH208 - Contains C14-18 alpha-olefin epoxide, reaction products with boric acid, Triphenyl Supplemental label information

phosphite. May produce an allergic reaction.

2.3. Other hazards This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Distillates (petroleum), h light paraffinic	ydrotreated	25-50	64742-55-8 265-158-7	01-2119487077-29	649-468-00-3	
Classification:	Asp. Tox. 1;I	H304				L
Zinc bis[O,O-bis(2-ethylh bis(dithiophosphate)	nexyl)]	0.1-2.49	4259-15-8 224-235-5	01-2119493635-27	-	
Classification:	Eye Dam. 1;	H318, Aqu	atic Chronic 2;H411			
C14-18 alpha-olefin epoproducts with boric acid	xide, reaction	0.1-0.99	- 939-580-3	01-2119976364-28	-	
Classification:	Skin Sens. 1	B;H317				
Triphenyl phosphite		0.1-0.15	101-02-0 202-908-4	01-2119511213-58	015-105-00-7	
Classification:			n Irrit. 2;H315, Skin S Chronic 1;H410	Sens. 1;H317, Eye Irrit. 2;H3	319, Aquatic	

Mineral oil with additives. The mineral oils in the product contain <3% DMSO extract (IP 346). **Composition comments**

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

4.2. Most important symptoms and effects, both acute and

delayed

Exposure may cause temporary irritation, redness, or discomfort.

Treat symptomatically. 4.3. Indication of any

immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting Move containers from fire area if you can do so without risk. procedures

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local

authorities should be advised if significant spillages cannot be contained.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

6.2. Environmental precautions Avoid rele

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

This product is miscible in water. Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product

recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid prolonged exposure. Observe good industrial hygiene practices. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

7.2. Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see section 10 of

the SDS).

7.3. Specific end use(s)

Transmission oil.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ireland. Occupational Exposure Limits

Product	Туре	Value	Form
Oil mist, mineral	TWA	5 mg/m3	Inhalable fraction.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels (DNELs)

General Population

Components	Value	Assessment factor	Notes
C14-18 alpha-olefin epoxide, reaction product	s with boric acid (CAS -)		
Long-term, Systemic, Dermal	8.3 mg/kg bw/day	600	Repeated dose toxicity
Long-term, Systemic, Inhalation	1.45 mg/m3	150	Repeated dose toxicity
Long-term, Systemic, Oral	0.83 mg/kg bw/day	600	Repeated dose toxicity
Distillates (petroleum), hydrotreated light para	ffinic (CAS 64742-55-8)		
Long-term, Systemic, Oral	0.74 mg/kg bw/day		
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosp	ohate) (CAS 4259-15-8)		
Long-term, Systemic, Dermal	4.8 mg/kg bw/day	240	Repeated dose toxicity
Long-term, Systemic, Inhalation	1.67 mg/m3		Repeated dose toxicity
Long-term, Systemic, Oral	0.19 mg/kg bw/day	600	Repeated dose toxicity
Warkers			
<u>Workers</u>			
<u>Components</u>	Value	Assessment factor	Notes
		Assessment factor	Notes
Components		Assessment factor	Notes Repeated dose toxicity
Components C14-18 alpha-olefin epoxide, reaction product	s with boric acid (CAS -)		
Components C14-18 alpha-olefin epoxide, reaction product Long-term, Systemic, Dermal	s with boric acid (CAS -) 16.7 mg/kg bw/day 5.88 mg/m3	300	Repeated dose toxicity
Components C14-18 alpha-olefin epoxide, reaction product Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	s with boric acid (CAS -) 16.7 mg/kg bw/day 5.88 mg/m3	300	Repeated dose toxicity
Components C14-18 alpha-olefin epoxide, reaction product Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Distillates (petroleum), hydrotreated light para	s with boric acid (CAS -) 16.7 mg/kg bw/day 5.88 mg/m3 ffinic (CAS 64742-55-8)	300	Repeated dose toxicity
Components C14-18 alpha-olefin epoxide, reaction product Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Distillates (petroleum), hydrotreated light para Long-term, Systemic, Dermal	s with boric acid (CAS -) 16.7 mg/kg bw/day 5.88 mg/m3 ffinic (CAS 64742-55-8) 1 mg/kg bw/day	300	Repeated dose toxicity
Components C14-18 alpha-olefin epoxide, reaction product Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Distillates (petroleum), hydrotreated light para Long-term, Systemic, Dermal Long-term, Systemic, Inhalation	s with boric acid (CAS -) 16.7 mg/kg bw/day 5.88 mg/m3 ffinic (CAS 64742-55-8) 1 mg/kg bw/day 2.7 mg/m3	300	Repeated dose toxicity
Components C14-18 alpha-olefin epoxide, reaction product Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Distillates (petroleum), hydrotreated light para Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Short-term, Local, Inhalation	s with boric acid (CAS -) 16.7 mg/kg bw/day 5.88 mg/m3 ffinic (CAS 64742-55-8) 1 mg/kg bw/day 2.7 mg/m3	300	Repeated dose toxicity
Components C14-18 alpha-olefin epoxide, reaction product Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Distillates (petroleum), hydrotreated light para Long-term, Systemic, Dermal Long-term, Systemic, Inhalation Short-term, Local, Inhalation Triphenyl phosphite (CAS 101-02-0)	s with boric acid (CAS -) 16.7 mg/kg bw/day 5.88 mg/m3 ffinic (CAS 64742-55-8) 1 mg/kg bw/day 2.7 mg/m3 5.6 mg/m3	300	Repeated dose toxicity Repeated dose toxicity

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8)

Long-term, Systemic, Dermal 9.6 mg/kg bw/day 120 Repeated dose toxicity Long-term, Systemic, Inhalation 6.6 mg/m3 30 Repeated dose toxicity

Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
C14-18 alpha-olefin epoxide, reaction	products with boric acid (CAS	-)	
Freshwater	0.2 mg/l	50	
Marine water	0.02 mg/l	500	
Secondary poisoning	33.3 mg/kg	300	
Sediment (freshwater)	8556 mg/kg		
Sediment (marine water)	855.6 mg/kg		
Soil	1706.3 mg/kg		
STP	100 mg/l	100	
Distillates (petroleum), hydrotreated lig	ght paraffinic (CAS 64742-55-8)	
Secondary poisoning	9.33 mg/kg		
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dith	niophosphate) (CAS 4259-15-8))	
Freshwater	4 μg/l	100	
Marine water	4.6 µg/l	10000	
Secondary poisoning	8.33 mg/kg	300	Oral
Sediment (freshwater)	0.322 mg/kg		
Sediment (marine water)	0.032 mg/kg		
Soil	0.062 mg/kg		
STP	3.8 mg/l	100	

Exposure guidelines

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection should meet standard EN 166.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Glove material: Nitrile rubber. Use gloves with

breakthrough time of 480 minutes. Minimum glove thickness 0.35 mm. Wear suitable gloves tested

to EN374.

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Provide adequate ventilation.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

SECTION 9: Physical and chemical properties

levels.

9.1. Information on basic physical and chemical properties

Appearance

Physical stateLiquid.FormLiquid.ColourBrown.

Odour Characteristic.
Odour threshold No data available.
PH Not applicable.
Melting point/freezing point No data available.
Initial boiling point and boiling No data available.

range

> 200.0 °C (> 392.0 °F) (ASTM D 92) Flash point

Evaporation rate No data available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

No data available.

Flammability limit - upper

(%)

No data available.

Vapour pressure No data available. No data available. Vapour density 0.866 (15.6 °C) Relative density

Solubility(ies) Slightly soluble in water.

Partition coefficient

No data available.

(n-octanol/water)

Auto-ignition temperature No data available. No data available. **Decomposition temperature** 71 mm²/s (40°C) **Viscosity Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

Density 0.87 kg/m3 at 15°C

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. 10.2. Chemical stability

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Exposure may cause temporary irritation, redness, or discomfort.

11.1. Information on toxicological effects

Acute toxicity

Components	Species	Test Results
C14-18 alpha-olefin epoxide, reaction	on products with boric acid (CAS -)	
<u>Acute</u>		

Dermal

LD50 Rat > 2000 mg/kg

Oral

LD50 Rat > 16000 mg/kg

Triphenyl phosphite (CAS 101-02-0)

Acute Dermal

LD50 Rabbit 2 - 5 g/kg, 24 Hours

Husqvarna 4-Stroke OIL 10W-30 Transmission Oil

Components **Species Test Results** Inhalation Aerosol LC50 Rat > 6.7 mg/l, 1 Hours Oral LD50 Rat 2 g/kg Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8) **Acute Dermal** LD50 Rabbit > 5000 mg/kg, 24 Hours Oral LD50 Rat 3100 mg/kg Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/eye Based on available data, the classification criteria are not met. Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) [CAS 4259-15-8] was not an ocular irritant when tested as a 50% formulation irritation in mineral oil. Due to partial or complete lack of data the classification is not possible. Respiratory sensitisation Based on available data, the classification criteria are not met. Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Carcinogenicity Due to partial or complete lack of data the classification is not possible. Reproductive toxicity Based on available data, the classification criteria are not met. Due to partial or complete lack of data the classification is not possible. single exposure Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. **Aspiration hazard**

Specific target organ toxicity -

Specific target organ toxicity -

repeated exposure

Mixture versus substance

information

No information available.

Other information Prolonged and repeated contact with used oil may cause serious skin diseases, such as

dermatitis and skin cancer.

SECTION 12: Ecological information

Harmful to aquatic life with long lasting effects. Based on available data, the classification criteria 12.1. Toxicity

are not met for hazardous to the aquatic environment, acute hazard.

Components Species **Test Results**

C14-18 alpha-olefin epoxide, reaction products with boric acid (CAS -)

Aquatic

Acute

Algae EL50 Pseudokirchneriella subcapitata > 100 mg/l, 72 hours EL50 > 100 mg/l, 48 hours Crustacea Daphnia magna Fish LL50 Oncorhynchus mykiss > 100 mg/l, 96 hours

Chronic

NOEL 10 mg/l, 21 days Crustacea Daphnia magna

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8)

Aquatic

Fish LL50 Rainbow trout (Oncorhynchus mykiss) 4.4 mg/l, 96 hours **NOEC** Rainbow trout (Oncorhynchus mykiss) 3.2 mg/l, 96 hours

12.2. Persistence and

degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential No data available. Partition coefficient Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special precautionsDispose in accordance with all applicable regulations.

Not established.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC

Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Not listed

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

ECHA CHEM References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any H-statements not written out in full under Sections 2 to 15

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eve damage. H319 Causes serious eye irritation. 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.

Training information Disclaimer

Follow training instructions when handling this material.

Husqvarna AB cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

SDS Ireland

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