

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : TURMOWOODOIL 2
Revision date : 13.03.2023
Print date : 13.03.2023

Version (Revision) : 4.0.0 (3.5.0)

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

1.1 Product identifier

TURMOWOODOIL 2
UFI: VSM8-CGWW-U30J-XK8F

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

Relevant identified uses

Product Categories [PC]

PC24 - Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor)

Lubricant Consult GmbH

Street : Gutenbergstraße 13

Postal code/city : 63477 MAINTAL (GERMANY)

Telephone : +49 6109/7650-0

Telefax : +49 6109/7650-51

E-mail : msds-request@lubcon.com

Information contact : Environment, Health & Safety: Dr. Rüdiger Hofmann

US Distributor
Fuchs Lubricants Co.
17050 Lathrop Avenue
Harvey, IL 60426
(708) 333-8900
(800) 255-3924 24 hrs
Emergency

1.4 Emergency telephone number

+49 6109/7650-0
Monday to Friday 8:00 AM to 4:00 PM (CET)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4

Hazard statements

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see ... on this label).
P302+P352 IF ON SKIN: Wash with plenty of water/....

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; EC No. : 932-102-4; CAS No. : 677026-24-3

Weight fraction : $\geq 1 - < 5 \%$

Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Aquatic Acute 1 ; H400 Aquatic Chronic 3 ; H412

Tris(nonylphenyl) phosphite ; REACH registration No. : 01-2119520601-54-xxxx ; EC No. : 247-759-6; CAS No. : 26523-78-4

Weight fraction : $\geq 1 - < 3 \%$

Classification 1272/2008 [CLP] : Repr. 2 ; H361 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; REACH registration No. : 01-2119496065-33-xxxx ; EC No. : 204-327-1; CAS No. : 119-47-1

Weight fraction : $< 0,5 \%$

Classification 1272/2008 [CLP] : Repr. 2 ; H361f Aquatic Chronic 4 ; H413

Further ingredients

Ester oil

Additives not to declare

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

Tris(nonylphenyl) phosphite ; REACH registration No. : 01-2119520601-54-xxxx ; EC No. : 247-759-6; CAS No. : 26523-78-4

6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; REACH registration No. : 01-2119496065-33-xxxx ; EC No. : 204-327-1; CAS No. : 119-47-1

Additional information

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

In case of skin contact

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap In case of skin irritation, consult a physician.

After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an

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ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Let water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). ABC-powder. BC-powder. Foam. Dry sand.

Unsuitable extinguishing media

Water. Strong water jet. High power water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon monoxide (CO). Carbon dioxide (CO₂). Burning produces heavy smoke.

5.3 Advice for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

Special danger of slipping by leaking/spilling product.

6.1 Personal precautions, protective equipment and emergency procedures

None

6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Ensure waste is collected and contained. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal. Soak up inert absorbent and dispose as waste requiring special attention. Suitable material for taking up: Universal binder. Kieselguhr.

6.4 Reference to other sections

None

SECTION 7: Handling and storage



7.1 Precautions for safe handling

Protective measures

It is recommended to design all work processes always so that the following is excluded: Generation/formation of mist. Avoid: Inhalation of vapours or spray/mists. Skin contact, Eye contact. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

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7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class : 10

Storage class (TRGS 510) : 10

Keep away from

Food and feedingstuffs

Further information on storage conditions

Keep/Store only in original container. Keep container tightly closed. Protect against UV-radiation/sunlight. Humidity. Contact with air/oxygen. Dust deposits.

7.3 Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Take the precautions customary when handling chemicals. Change contaminated, saturated clothing. Keep away from sources of ignition - No smoking.

8.1 Control parameters

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type :	DNEL Consumer (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route :	Oral
Exposure frequency :	Short-term (acute)
Limit value :	= 1,59 mg/kg
Limit value type :	DNEL Consumer (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route :	Dermal
Exposure frequency :	Short-term (acute)
Limit value :	= 1,59 mg/kg
Limit value type :	DNEL Consumer (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,318 mg/kg
Limit value type :	DNEL Consumer (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,318 mg/kg
Limit value type :	DNEL Consumer (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route :	Inhalation
Exposure frequency :	Short-term (acute)
Limit value :	= 5,5 mg/m ³
Limit value type :	DNEL Consumer (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	= 1,1 mg/m ³
Limit value type :	DNEL worker (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route :	Inhalation

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Exposure frequency : Short-term (acute)
Limit value : = 22,4 mg/m³
Limit value type : DNEL worker (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : = 4,48 mg/m³
Limit value type : DNEL worker (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Dermal
Exposure frequency : Short-term (acute)
Limit value : = 3,175 mg/kg
Limit value type : DNEL worker (systemic) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : = 0,635

PNEC

Limit value type : PNEC (Aquatic, freshwater) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Limit value : = 6,8 µg/l
Limit value type : PNEC (Aquatic, marine water) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Limit value : = 0,68 µg/l
Limit value type : PNEC (Sediment, freshwater) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Limit value : = 102 mg/kg
Limit value type : PNEC (Sediment, marine water) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Limit value : = 10,2 mg/kg
Limit value type : PNEC Soil (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Limit value : = 20 mg/kg
Limit value type : PNEC (Sewage treatment plant) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Limit value : = 100 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Use safety glasses. Avoid: Eye contact.

Recommended eye protection articles

DIN EN 166

Skin protection

Hand protection

Wear suitable gloves.

By long-term hand contact : Tested protective gloves must be worn.

Suitable material : PE (Polyethylene). NR (natural rubber, natural latex). NBR (Nitrile rubber).

Breakthrough time (maximum wearing time) : PE < 30 min. ; NR < 10 min.; NBR > 480 min.

Thickness of the glove material : min. 0,38 mm

Recommended glove articles : EN ISO 374; DIN EN 420 Uvex. KCL, MAPA. Or comparable articles from other companies.

Respiratory protection

No special measures are necessary. Avoid: Inhalation of vapours or spray/mists

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : blue

Safety relevant basis data

Physical state :			liquid
Solidifying point :	(1013 hPa)	<	-30 °C
Initial boiling point and boiling range :	(1013 hPa)	>	250 °C
Decomposition temperature :	(1013 hPa)	>	240 °C
Flash point :	(1013 hPa)	>	270 °C
Vapour pressure :	(50 °C)	<	1 hPa
Density :	(20 °C)	=	0,98 g/cm ³
Viscosity :	(40 °C)	=	54 mm ² /s
Viscosity :	(100 °C)	=	8 mm ² /s

9.2 Other information

None

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Strong acid. Strong alkali.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Oxidising agent, strong.

10.6 Hazardous decomposition products

Carbon monoxide (CO). Nitrogen oxides (NOx). Sulphur dioxide (SO₂). Phosphorus oxides (e.g. P₂O₅). Gases/vapours, harmful.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute effects

By analogy:

Acute oral toxicity

Parameter :	LD50
Exposure route :	Oral
Species :	Rat
Effective dose :	> 2000 mg/kg

Acute dermal toxicity

Parameter :	LD50 (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Exposure route :	Dermal
Species :	Rat
Effective dose :	> 2000 mg/kg

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Method : OECD 402
Parameter : LD50 (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Exposure route : Dermal
Species : Rat
Effective dose : > 2000 mg/kg
Parameter : LD50 (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Dermal
Species : Rat
Effective dose : > 10000 mg/kg

Irritant and corrosive effects

Primary irritation to the skin

Parameter : Primary irritation to the skin (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Rabbit
Result : Slightly irritant
Method : OECD 405
Parameter : Primary irritation to the skin (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Rabbit
Effective dose : = 4 h
Result : Not an irritant No oedema.
Method : OECD 404

Irritation to eyes

Parameter : Irritation to eyes (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Rabbit
Result : Based on available data, the classification criteria are not met. Slightly irritant
Method : OECD 405
Parameter : Irritation to eyes (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Species : Rabbit
Result : Slightly irritant
Method : OECD 405
Parameter : Irritation to eyes (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Rabbit
Result : Not an irritant No corneal opacity.
Method : OECD 405
Parameter : Irritation to eyes (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Rabbit
Effective dose : < 1
Exposure time : 7 d
Result : No chemosis. Not an irritant
Method : OECD 405

Sensitisation

In case of skin contact

Parameter : Skin sensitisation (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Guinea pig
Result : Not sensitising.
Method : OECD 406
Parameter : Skin sensitisation (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Species : Guinea pig
Result : Sensitising.
Method : OECD 406
Parameter : Skin sensitisation (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)

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Species : Mouse
Result : Not sensitising.
Method : OECD 429

In case of inhalation

Parameter : Sensitisation to the respiratory tract (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)

Species : Guinea pig
Result : Not sensitising.
Method : OECD 406

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

Parameter : LOAEL(C) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Oral
Species : Rat
Effective dose : = 50 mg/kg
Exposure time : 28 d

Parameter : NOAEL(C) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Oral
Species : Rat
Effective dose : = 12,7 mg/kg/d
Exposure time : 126 d

Parameter : NOAEL(C) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Oral
Species : Rat
Effective dose : = 12,5 mg/kg
Exposure time : 52 d

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

In vitro mutagenicity

Parameter : Gene-mutations microorganisms (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)

Exposure route : In vitro mutagenicity
Species : Salmonella typhimurium
Test result : Negative.
Method : OECD 471 (Ames test)

Parameter : Gene-mutations microorganisms (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)

Test result : Ames test negative.
Method : OECD 471 (Ames test)

Parameter : Gene-mutations mammalian cells (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)

Exposure route : In vitro mutagenicity
Test result : Negative (without metabolic activation).
Method : OECD 473

Reproductive toxicity

Adverse effects on developmental toxicity

Parameter : NOAEL(C) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Exposure route : Oral
Species : Rat
Effective dose : = 12,5 mg/kg/d
Test result : Positive.
Method : OECD 421

11.2 Information on other hazards

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No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Cyprinus carpio (Common Carp)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 1 - 10 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Species : Brachydanio rerio (Zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : = 7,1 mg/l
Exposure time : 96 h
Parameter : LC50 (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Oryzias latipes (Ricefish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : = 5 mg/kg
Exposure time : 96 h
Method : OECD 203

Acute (short-term) daphnia toxicity

Parameter : EC50 (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 0,1 - 1 mg/l
Exposure time : 48 h
Method : OECD 202
Parameter : EC50 (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 4,8 mg/l
Exposure time : 48 h
Method : OECD 202

Chronic (long-term) daphnia toxicity

Parameter : NOEC (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : = 0,34 mg/l
Exposure time : 21 d
Method : OECD 211

Acute (short-term) algae toxicity

Parameter : EC10 (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Desmodesmus subspicatus
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : > 0,1 - 1 mg/l
Exposure time : 72 h

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Method : OECD 201
Parameter : IC50 (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Species : Algae
Effective dose : > 100 mg/l
Parameter : IC50 (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : = 5 mg/l
Exposure time : 72 h
Method : OECD 201
Parameter : NOELR (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Pseudokirchneriella subcapitata
Evaluation parameter : Acute (short-term) algae toxicity
Effective dose : = 1,3 mg/l
Exposure time : 72 h

Bacteria toxicity

Parameter : EC10 (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Pseudomonas putida
Evaluation parameter : Bacteria toxicity
Effective dose : > 2000 mg/l
Exposure time : 5,33 h
Method : Fermentation tube test
Parameter : EC50 (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Species : Bacteria toxicity
Effective dose : > 100 mg/l
Parameter : EC50 (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Activated sludge
Effective dose : > 10000 mg/l
Exposure time : 3 h
Method : OECD 209

Sediment toxicity

Toxicity to soil macroorganisms

Acute earthworm toxicity

Parameter : LC50 (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Species : Eisenia foetida (Earthworm)
Evaluation parameter : Long term toxicity of organisms living in the sediment
Effective dose : > 1000 mg/kg
Exposure time : 14 d
Method : OECD 207

12.2 Persistence and degradability

Abiotic degradation

Photo-chemical elimination

Parameter : Photo-chemical elimination (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Species : Photolysis
Effective dose : = 50 %
Exposure time : 0,5 d
Method : Photo-chemical elimination

Biodegradation

Parameter : Biodegradation (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)

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Inoculum :	Degree of elimination
Evaluation parameter :	Aerobic
Effective dose :	> 70 %
Exposure time :	28 d
Evaluation :	Readily biodegradable (according to OECD criteria).
Method :	OECD 301A
Parameter :	Biodegradation (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Evaluation :	Not readily biodegradable (according to OECD criteria)
Parameter :	Biodegradation (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Effective dose :	0 %
Exposure time :	28 d
Evaluation :	Poorly biodegradable.
Method :	OECD 301C

Overall evaluation on the mixture: Not readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential

Parameter :	Bioconcentration factor (BCF) (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Concentration :	< 500
Parameter :	Bioconcentration factor (BCF) (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Concentration :	= 840
Parameter :	Partition coefficient: n-octanol/water (Tris(nonylphenyl) phosphite ; CAS No. : 26523-78-4)
Concentration :	approx. 14
Parameter :	Partition coefficient: n-octanol/water (6,6'-di-tert-butyl-2,2'-methylene di-p-cresol ; CAS No. : 119-47-1)
Concentration :	= 6,25

12.4 Mobility in soil

Adsorption/Desorption

Parameter :	Mobility in soil (C16-18 alcohol, C18-unsaturated, ethoxylated, propoxylated ; CAS No. : 677026-24-3)
Effective dose :	= 3,722
Evaluation :	Mobility in soil
Method :	Partition coefficient n-octanol /water (log P O/W)

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

Endocrine disrupting potential: Ingredients cause disorders of the hormonal system. The product contains Tris(nonylphenyl) phosphite (CAS 26523-78-4).

12.7 Other adverse effects

This product does not contain nanoparticles.

12.8 Overall evaluation

If product enters soil, it will be mobile and may contaminate groundwater. In accordance with the required stability the product is poorly biodegradable.

SECTION 13: Disposal considerations

Dispose according to legislation. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1 Waste treatment methods

Send to a hazardous waste incinerator facility under observation of official regulations. Collect the waste separately. Evidence for disposal must be provided.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



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Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

13 02 06 - Synthetic engine, gear and lubricating oils

Waste code packaging

15 01 10 - Packaging containing residues of or contaminated by hazardous substances. - Dispose of completely emptied containers as combustible waste or metal waste depending on the material.

SECTION 14: Transport information

14.1 UN number or ID number

No dangerous good in sense of these transport regulations.

14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

14.4 Packing group

No dangerous good in sense of these transport regulations.

14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

SECTION 15: Regulatory information

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

National regulations

Restrictions of occupation

Swiss Maternity Protection Ordinance (SR 822.111.52): Pregnant women and nursing mothers are only allowed to get in contact with or be exposed to this preparation in the course of their work when it is established on the basis of a risk assessment by a specialist, that in context with the activities and the protection measures applied, exposure does no harm to mother and child.

Störfallverordnung

Not subject to StörfallVO.

Emission control act (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 1 %

Water hazard class (WGK)

Class : 2 (Significant hazardous to water) Classification according to AwSV

Other regulations, restrictions and prohibition regulations

Switzerland

VOCV-Regulation

Volatile organic compounds (VOC) content in percent by weight : 0 %

Additional information

TSCA (Toxic Substances Control Act) - USA, United States of America

Not all ingredients of this substance are listed in the TSCA substance list.

California Proposition 65 - State of California

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Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65.

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 03. Hazardous ingredients · 03. Composition / Information on ingredients - Additional information · 13. Waste codes/waste designations according to EWC/AVV · 15. National regulations · 15. Other regulations, restrictions and prohibition regulations

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The statement is derived from the properties of the single components.

16.5 Relevant H- and EUH-phrases (Number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6 Training advice

None

16.7 Additional information

None

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.