

Safety Data Sheet

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



Trade name : TURMOGREASE Li AzR gem. SAE AMS 3057
Revision date : 22.02.2023
Print date : 15.05.2025

Version (Revision) : 3.0.0 (2.1.0)

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

1.1 Product identifier

TURMOGREASE Li AzR gem. SAE AMS 3057

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. Jens Matthes

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 2 ; H411 - Hazardous to the aquatic environment : Chronic 2 ; Toxic to aquatic life with long lasting effects.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

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

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

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

Hazard pictograms



Health hazard (GHS08) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard components for labelling

Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4

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Hazard statements

H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash ... thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P314 Get medical advice/attention if you feel unwell.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

None

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

1-Decene, trimers, hydrogenated ; REACH registration No. : 01-2119493949-12-xxxx ; EC No. : 500-393-3; CAS No. : 157707-86-3

Weight fraction : $\geq 5 - < 10 \%$
Classification 1272/2008 [CLP] : Asp. Tox. 1 ; H304

Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; REACH registration No. : 01-2120785714-43-xxxx ; EC No. : 948-071-5; CAS No. : -

Weight fraction : $\geq 1 - < 3 \%$
Classification 1272/2008 [CLP] : Skin Corr. 1C ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Sens. 1B ; H317 Aquatic Chronic 1 ; H410

Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; REACH registration No. : 01-2119980985-16-xxxx ; EC No. : 939-717-7; CAS No. : 1474044-79-5

Weight fraction : $\geq 1 - < 5 \%$
Classification 1272/2008 [CLP] : Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; REACH registration No. : 01-2119976322-36-xxxx ; EC No. : 279-632-6; CAS No. : 80939-62-4

Weight fraction : $\geq 1 - < 5 \%$
Classification 1272/2008 [CLP] : STOT RE 1 ; H372 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 Aquatic Chronic 2 ; H411

O,O,O-triphenyl phosphorothioate ; REACH registration No. : 01-2119979545-21-xxxx ; EC No. : 209-909-9; CAS No. : 597-82-0

Weight fraction : $< 0,5 \%$
Classification 1272/2008 [CLP] : Aquatic Chronic 1 ; H410

2,6-di-tert-butyl-p-cresol (BHT) ; REACH registration No. : 01-2119555270-46-xxxx ; EC No. : 204-881-4; CAS No. : 128-37-0

Weight fraction : $< 0,5 \%$
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; REACH registration No. : 01-2119491299-23-xxxx ; EC No. : 270-128-1; CAS No. : 68411-46-1

Weight fraction : $< 0,5 \%$
Classification 1272/2008 [CLP] : Repr. 2 ; H361f

Further ingredients

Ester oil

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SHC (Synthetic hydrocarbon)

Metallic soap

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

O,O,O-triphenyl phosphorothioate ; REACH registration No. : 01-2119979545-21-xxxx ; EC No. : 209-909-9; CAS No. : 597-82-0

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 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

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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.

7.2 Conditions for safe storage, including any incompatibilities

Hints on joint storage

Storage class (TRGS 510) :11

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

Occupational exposure limit values

O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0

Limit value type (country of origin) : TRGS 900 (D)

Parameter : E: inhalable fraction

Limit value : 20 mg/m³

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Peak limitation : 2(II)
Remark : DFG
Version : 01.06.2021
2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0
Limit value type (country of origin) : TRGS 900 (D)
Parameter : E: inhalable fraction
Limit value : 10 mg/m³
Peak limitation : 4(II)
Remark : Y
Version : 01.09.2012

DNEL/DNEL and PNEC values

DNEL/DNEL

Limit value type : DNEL Consumer (systemic) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : = 0,218 mg/m³
Limit value type : DNEL Consumer (systemic) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : = 0,125 mg/kg/d
Limit value type : DNEL Consumer (systemic) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Exposure route : Oral
Exposure frequency : Long-term (repeated)
Limit value : = 0,125 mg/kg/d
Limit value type : DNEL worker (systemic) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : = 1,23 mg/m³
Limit value type : DNEL worker (systemic) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : = 0,35 mg/kg/d
Limit value type : DNEL worker (systemic) (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
Exposure route : Dermal
Exposure frequency : Long-term (repeated)
Limit value : = 10 mg/kg
Limit value type : DNEL worker (systemic) (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
Exposure route : Inhalation
Exposure frequency : Long-term (repeated)
Limit value : = 5 mg/m³
Limit value type : DNEL Consumer (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 0,07 mg/m³
Limit value type : DNEL Consumer (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)

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Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,02 mg/kg
Limit value type :	DNEL Consumer (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,02 mg/kg
Limit value type :	DNEL worker (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	= 0,395 mg/m ³
Limit value type :	DNEL worker (systemic) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,056 mg/kg
Limit value type :	DNEL Consumer (systemic) (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	= 0,34 mg/m ³
Limit value type :	DNEL Consumer (systemic) (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	= 0,2 mg/kg
Limit value type :	DNEL Consumer (systemic) (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Exposure route :	Oral
Exposure frequency :	Long-term
Limit value :	= 0,2 mg/kg
Limit value type :	DNEL worker (systemic) (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	= 1,39 mg/m ³
Limit value type :	DNEL worker (systemic) (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Exposure route :	Dermal
Exposure frequency :	Long-term
Limit value :	= 0,4 mg/kg
Limit value type :	DNEL Consumer (systemic) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Oral
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,25 mg/kg/d
Limit value type :	DNEL Consumer (systemic) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,435 mg/m ³
Limit value type :	DNEL Consumer (systemic) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Dermal
Exposure frequency :	Long-term (repeated)
Limit value :	= 0,25 mg/kg/d
Limit value type :	DNEL worker (systemic) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Exposure route :	Inhalation
Exposure frequency :	Long-term (repeated)
Limit value :	= 1,76 mg/m ³

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Limit value type : DNEL worker (systemic) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
 Exposure route : Dermal
 Exposure frequency : Long-term (repeated)
 Limit value : = 0,5 mg/kg/d

PNEC

Limit value type : PNEC (Aquatic, freshwater) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
 Limit value : = 1,9 µg/l
 Limit value type : PNEC (Aquatic, marine water) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
 Limit value : = 0,19 µg/l
 Limit value type : PNEC (Sediment, freshwater) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
 Limit value : = 7,57 mg/kg dw
 Limit value type : PNEC (Sediment, marine water) (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
 Limit value : = 0,757 mg/kg dw
 Limit value type : PNEC Soil (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
 Limit value : = 1,51 mg/kg dw
 Limit value type : PNEC (Aquatic, freshwater) (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
 Limit value : = 0,004 mg/l
 Limit value type : PNEC (Aquatic, marine water) (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
 Limit value : = 0,0004 mg/l
 Limit value type : PNEC (Sediment, freshwater) (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
 Limit value : = 69 mg/kg
 Limit value type : PNEC Soil (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
 Limit value : = 13,9 mg/kg
 Limit value type : PNEC (Secondary poisoning) (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
 Limit value : = 22,2 mg/kg
 Limit value type : PNEC (Sewage treatment plant) (Calcium bis(di C8-C10, branched, C9-rich, alkyl-naphthalenesulphonate) ; CAS No. : 1474044-79-5)
 Limit value : = 10 mg/l
 Limit value type : PNEC (Aquatic, freshwater) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
 Limit value : = 0,055 mg/l
 Limit value type : PNEC (Aquatic, intermittent release) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
 Limit value : = 0,01 mg/l
 Limit value type : PNEC (Aquatic, marine water) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
 Limit value : = 0,0055 mg/l
 Limit value type : PNEC (Sediment, freshwater) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
 Limit value : = 239,64 mg/kg
 Limit value type : PNEC (Sediment, marine water) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
 Limit value : = 23,96 mg/kg
 Limit value type : PNEC Soil (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
 Limit value : = 47,76 mg/kg

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Limit value type :	PNEC (Sewage treatment plant) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Limit value :	= 1 mg/l
Limit value type :	PNEC Soil (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Limit value :	= 2,37 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Limit value :	= 1 mg/l
Limit value type :	PNEC (Aquatic, freshwater) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,199 µg/l
Limit value type :	PNEC (Aquatic, intermittent release) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 1,99 µg/l
Limit value type :	PNEC (Aquatic, marine water) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,0199 µg/l
Limit value type :	PNEC (Sediment, freshwater) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,45819 mg/kg
Limit value type :	PNEC (Sediment, marine water) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,04582 mg/kg
Limit value type :	PNEC Soil (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 0,0539 mg/kg
Limit value type :	PNEC (Secondary poisoning) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 16,67 mg/kg
Limit value type :	PNEC (Sewage treatment plant) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Limit value :	= 17 µg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Eye protection: not required. Avoid: Eye contact.

Recommended eye protection articles

DIN EN 166

Skin protection

Hand protection

Hand protection is not required

By long-term hand contact : Wear suitable gloves.

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour : light beige

Safety relevant basis data

Physical state :

flowing

Initial boiling point and boiling range :

(1013 hPa)

>

300 °C

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Decomposition temperature :	(1013 hPa)	>	200 °C
Flash point :	(1013 hPa)	>	200 °C
Vapour pressure :	(50 °C)	=	0,12 hPa
Density :	(20 °C)	=	0,93 g/cm ³
Vapour pressure :	(20 °C)	<	0,1 hPa

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). Carbon dioxide (CO₂). 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
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 2000 mg/kg

Irritant and corrosive effects

Primary irritation to the skin

Parameter :	Primary irritation to the skin (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Species :	Rabbit
Result :	Irritant
Method :	OECD 404
Parameter :	Primary irritation to the skin (Amines, C11-14-branched alkyl, monoheptyl and diheptyl phosphates ; CAS No. : 80939-62-4)
Species :	Rabbit
Result :	Irritant
Method :	OECD 404

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Parameter : Primary irritation to the skin (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Species : Rabbit
Result : Not an irritant
Parameter : Primary irritation to the skin (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Rabbit
Result : Not an irritant

Irritation to eyes

Parameter : Irritation to eyes (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Species : Rabbit
Result : Irritant
Method : OECD 405
Parameter : Irritation to eyes (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Species : Rabbit
Result : Irritant
Method : OECD 405
Parameter : Irritation to eyes (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Species : Rabbit
Result : Not an irritant
Parameter : Irritation to eyes (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Rabbit
Result : Not an irritant

Sensitisation

In case of skin contact

Parameter : Skin sensitisation (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Result : Not sensitising.
Parameter : Skin sensitisation (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Guinea pig
Result : Not sensitising.

In case of inhalation

Parameter : Sensitisation to the respiratory tract (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Result : Not sensitising.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity

Parameter : Carcinogenicity (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Test result : Negative.

Germ cell mutagenicity

In vitro mutagenicity

Parameter : Gene-mutations microorganisms (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Test result : Negative.
Parameter : Gene-mutations microorganisms (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Test result : Negative.
Method : OECD 471 (Ames test)

Reproductive toxicity

Developmental toxicity/teratogenicity

One generation reproduction toxicity test

Parameter : One generation reproduction toxicity test (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Test result : Negative.

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Parameter : NOAEL(C) (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1)
Exposure route : Oral
Species : Rat
Effective dose : = 18 mg/kg/d
Test result : Questionable.
Method : OECD 443
Source : Published on the ECHA website

11.2 Information on other hazards

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : = 5,5 mg/l
Exposure time : 96 h
Parameter : LC50 (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : = 5,5 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC50 (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Species : Brachydanio rerio (Zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 100 mg/l
Exposure time : 96 h
Method : OECD 203
Parameter : LC0 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Species : Brachydanio rerio (Zebra-fish)
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 0,57 mg/l
Exposure time : 96 h
Method : Regulation (EC) No. 440/2008, Annex, C.1
Parameter : LC50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1)
Species : Fish
Evaluation parameter : Acute (short-term) fish toxicity
Effective dose : > 71 mg/l
Exposure time : 96 h

Chronic (long-term) fish toxicity

Parameter : NOEC (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Species : Oncorhynchus mykiss (Rainbow trout)
Evaluation parameter : Chronic (long-term) fish toxicity
Effective dose : = 0,0017 mg/l
Exposure time : 97 d

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Evaluation : Very toxic to fish.
Method : OECD 210

Acute (short-term) daphnia toxicity

Parameter : EC50 (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : = 1,2 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC0 (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : >= 1 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : NOEC acute (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : > 10 mg/l
Exposure time : 21 d
Method : OECD 211

Parameter : EC50 (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : > 100 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : = 0,48 mg/l
Exposure time : 48 h
Method : OECD 202

Parameter : EC50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Acute (short-term) daphnia toxicity
Effective dose : = 51 mg/l
Exposure time : 48 h

Chronic (long-term) daphnia toxicity

Parameter : NOEC (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : > 1 mg/l
Exposure time : 21 d
Method : OECD 211

Parameter : NOEC (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)

Species : Daphnia magna (Big water flea)
Evaluation parameter : Chronic (long-term) daphnia toxicity
Effective dose : > 0,39 mg/l
Exposure time : 21 d

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Method : OECD 202

Acute (short-term) algae toxicity

Parameter : EC50 (Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate ; CAS No. : -)

Species : Selenastrum capricornutum

Evaluation parameter : Acute (short-term) algae toxicity

Effective dose : > 10 mg/l

Exposure time : 72 h

Parameter : EC50 (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)

Species : Pseudokirchneriella subcapitata

Evaluation parameter : Acute (short-term) algae toxicity

Effective dose : > 10 mg/l

Exposure time : 72 h

Method : OECD 201

Parameter : EC10 (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)

Species : Pseudokirchneriella subcapitata

Evaluation parameter : Inhibition of growth rate

Effective dose : > 4,9 mg/l

Exposure time : 72 h

Method : OECD 201

Parameter : EC50 (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)

Species : Desmodesmus subspicatus

Evaluation parameter : Acute (short-term) algae toxicity

Effective dose : > 100 mg/l

Exposure time : 72 h

Method : OECD 201

Parameter : EC10 (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)

Species : Pseudokirchneriella subcapitata

Evaluation parameter : Acute (short-term) algae toxicity

Effective dose : > 100 mg/l

Exposure time : 72 h

Method : OECD 201

Parameter : ErC50 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)

Species : Scenedesmus subspicatus

Evaluation parameter : Acute (short-term) algae toxicity

Effective dose : > 0,4 mg/l

Exposure time : 72 h

Method : Regulation (EC) No. 440/2008, Annex, C.3

Parameter : EC50 (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; CAS No. : 68411-46-1)

Species : Algae

Evaluation parameter : Acute (short-term) algae toxicity

Effective dose : > 100 mg/l

Exposure time : 72 h

Bacteria toxicity

Parameter : EC50 (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)

Species : Activated sludge

Evaluation parameter : Bacteria toxicity

Effective dose : > 100 mg/l

Exposure time : 3 h

Method : OECD 209

Parameter : EC50 (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)

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Species : Activated sludge
Evaluation parameter : Bacteria toxicity
Effective dose : > 10000 mg/l
Exposure time : 3 h

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Evaluation : Not readily biodegradable (according to OECD criteria)
Parameter : Biodegradation (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Effective dose : = 4,5 %
Exposure time : 28 d
Evaluation : Not readily biodegradable (according to OECD criteria)
Method : OECD 301C

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

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates ; CAS No. : 80939-62-4)
Bioconcentration factor (BCF)
Concentration : 0,85 - 278
Method : Estimated
Parameter : Bioconcentration factor (BCF) (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Cyprinus carpio (Common Carp)
Concentration : = 2551
56 d
Parameter : Bioconcentration factor (BCF) (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Concentration : = 598,4
Parameter : Log KOC (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Partition coefficient n-octanol /water (log P O/W)
Concentration : = 5
Parameter : Partition coefficient: n-octanol/water (2,6-di-tert-butyl-p-cresol (BHT) ; CAS No. : 128-37-0)
Concentration : = 5,1

12.4 Mobility in soil

Adsorption/Desorption

Parameter : Adsorption coefficient (O,O,O-triphenyl phosphorothioate ; CAS No. : 597-82-0)
Inoculum : Mobility in soil
Effective dose : = 5,3

12.5 Results of PBT and vPvB assessment

The mixture contains substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII : The product contains O,O,O-triphenyl phosphorothioate

12.6 Endocrine disrupting properties

Endocrine disrupting potential: Contains small amounts of 2,6-di-tert-butyl-p-cresol (BHT) (CAS 128-37-0) ≤ 0.2%.
Under assessment as endocrine disrupting.

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

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



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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.

Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

12 01 12 - Spent waxes and fats

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

UN 3077

14.2 UN proper shipping name

Land transport (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate)

Sea transport (IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate)

Air transport (ICAO-TI / IATA-DGR)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Reaction mass of C12-14 tert-alkylamines and dimethyl hydrogen phosphate and methyl dihydrogen phosphate)

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 9
Classification code : M7
Hazard identification number (Kemler No.) : 90
Tunnel restriction code : -
Special provisions : LQ 5 I · E 1
Hazard label(s) : 9 / N

Sea transport (IMDG)

Class(es) : 9
EmS-No. : F-A / S-F
Special provisions : LQ 5 kg · E 1
Hazard label(s) : 9 / N

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 9
Special provisions : E 1
Hazard label(s) : 9 / N

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : Yes

Sea transport (IMDG) : Yes (P)

Air transport (ICAO-TI / IATA-DGR) : Yes

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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

Not relevant

Störfallverordnung

Category 1.03.2 : 200000 / 500000kg

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

All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances.

California Proposition 65 - State of California

No substances listed in the California Safe Drinking Water and Toxic Enforcement Act of 1986 ("California Proposition 65 List") with respect to the version valid at the date of compilation of this Material Safety Data Sheet, are intentionally added to our product.

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Indication of changes

02. Classification of the substance or mixture · 02. Label elements · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] · 02. Labelling according to Regulation (EC) No. 1272/2008 [CLP] - Hazard components for labelling · 03. Hazardous ingredients · 03. Further ingredients · 08. Occupational exposure limit values · 15. National regulations

16.2 Abbreviations and acronyms

None

16.3 Key literature references and sources for data

Includes supplements in accordance with Regulation (EU) 2020/878 of June 18, 2020

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)

H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.

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H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
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.

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.
