

Condalum TZ 355 E

Version number: 1.0

Date of compilation: 27.07.2021

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

1.1 Product identifier

Trade name **Condalum TZ 355 E**
Registration number (REACH) Not relevant (mixture)

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

Relevant identified uses Lubricants, greases, release products

1.3 Details of the supplier of the safety data sheet

FRIEDRICH SCHARR KG
Liebknechtstraße 50
70565 Stuttgart
Germany

Telephone: +49 711 7868-0
Telefax: +49 711 7868-489
e-mail: info@scharr.de
Website: www.scharr.de

e-mail (competent person) produktsicherheit@scharr.de (Produktsicherheit)

1.4 Emergency telephone number

Emergency information service +49 711 7868-237
This number is only available during the following office hours: Mon-Fri 07:00 - 17:00

Poison centre			
Country	Name	Postal code/city	Telephone
Germany	Giftinformation Freiburg	79106 Freiburg im Breisgau	+49 (0)761 19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class	Category	Hazard class and category	Hazard statement
effects on or via lactation	L	Lact.	H362
hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
hazardous to the aquatic environment - chronic hazard	1	Aquatic Chronic 1	H410

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- signal word warning

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- pictograms

GHS09



- hazard statements

H362

May cause harm to breast-fed children.

H410

Very toxic to aquatic life with long lasting effects.

- precautionary statements

P201

Obtain special instructions before use.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P263

Avoid contact during pregnancy and while nursing.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P391

Collect spillage.

P501

Dispose of contents/container to industrial combustion plant.

- supplemental hazard information

EUH066

Repeated exposure may cause skin dryness or cracking.

- hazardous ingredients for labelling

alkanes, C14-17, chloro

2.3 Other hazards

of no significance

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures




Hazardous ingredients

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
alkanes, C14-17, chloro	CAS No 85535-85-9 EC No 287-477-0 Index No 602-095-00-X REACH Reg. No 01-2119519269-33- xxxx	25 – < 50	Lact. / H362 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410	
Distillates (petroleum), hydrotreated light naphthenic	CAS No 64742-53-6 EC No 265-156-6 Index No 649-466-00-2 REACH Reg. No 01-2119480375-34- xxxx	10 – < 25	Asp. Tox. 1 / H304	

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Distillates (petroleum), hydrotreated light paraffinic	CAS No 64742-55-8 EC No 265-158-7 REACH Reg. No 01-2119487077-29-xxxx	10 – < 25	Asp. Tox. 1 / H304	
zinc bis[O,O-bis(2-ethyl-hexyl)] bis(dithiophosphate)	CAS No 4259-15-8 EC No 224-235-5 REACH Reg. No 01-2119493635-27-xxxx	1 – < 5	Eye Dam. 1 / H318 Aquatic Chronic 2 / H411	 

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
alkanes, C14-17, chloro	-	M-factor (acute) = 100.0	-	
zinc bis[O,O-bis(2-ethyl-hexyl)] bis(dithiophosphate)	Eye Dam. 1; H318: C ≥ 50 %	-	-	

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Self-protection of the first aider.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Breathing difficulties. Headache. Vertigo.

4.3 Indication of any immediate medical attention and special treatment needed

Subsequent observance for pneumonia and pulmonary oedema. Supervise the blood circulation.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂), Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Danger of bursting container.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxides (P_xO_y), Sulphur dioxide (SO₂), Hydrogen chloride (HCl)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases. Provision of sufficient ventilation.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

- specific designs for storage rooms or vessels
- Recommended storage temperature 5 – 40 °C
Production date + 12 months.
- Lagerklasse (storage class according to TRGS 510, 10 (combustible liquids)
Germany)
- packaging compatibilities
Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of substance	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
DE	alkanes, C14-17, chloro	85535-85-9	AGW	0,3	6	2,4	48	TRGS 900

Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit); measured or calculated in relation to a reference period of 8 hours
time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
alkanes, C14-17, chloro	85535-85-9	DNEL	6,7 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
alkanes, C14-17, chloro	85535-85-9	DNEL	47,9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant DNELs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	DNEL	6,6 mg/m ³	human, inhalat-ory	worker (industry)	chronic - systemic effects
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	DNEL	9,6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture

Name of sub-stance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
alkanes, C14-17, chloro	85535-85-9	PNEC	10 mg/kg	aquatic organ-isms	water	short-term (single instance)
alkanes, C14-17, chloro	85535-85-9	PNEC	1 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
alkanes, C14-17, chloro	85535-85-9	PNEC	0,2 µg/l	aquatic organ-isms	marine water	short-term (single instance)
alkanes, C14-17, chloro	85535-85-9	PNEC	80 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)
alkanes, C14-17, chloro	85535-85-9	PNEC	13 mg/kg	aquatic organ-isms	freshwater sedi-ment	short-term (single instance)
alkanes, C14-17, chloro	85535-85-9	PNEC	2,6 mg/kg	aquatic organ-isms	marine sediment	short-term (single instance)
alkanes, C14-17, chloro	85535-85-9	PNEC	11,9 mg/kg	terrestrial organ-isms	soil	short-term (single instance)
Distillates (petro-leum), hydro-treated light naph-thenic	64742-53-6	PNEC	9,33 mg/kg	aquatic organ-isms	water	short-term (single instance)
Distillates (petro-leum), hydro-treated light par-affinic	64742-55-8	PNEC	9,33 mg/kg	aquatic organ-isms	water	short-term (single instance)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	8,33 mg/kg	aquatic organ-isms	water	short-term (single instance)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	44 µg/l	aquatic organ-isms	water	intermittent re-lease
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	4 µg/l	aquatic organ-isms	freshwater	short-term (single instance)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	4,6 µg/l	aquatic organ-isms	marine water	short-term (single instance)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	3,8 mg/l	aquatic organ-isms	sewage treatment plant (STP)	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	0,322 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	0,032 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	PNEC	0,062 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- type of material

NBR: acrylonitrile-butadiene rubber

- material thickness

0,12 mm

- breakthrough times of the glove material

>240 minutes (permeation: level 5)

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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Physical state	liquid
Colour	red
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	≥207 °C at 101,3 kPa
Evaporation rate	not determined
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	0,6 vol% - 6,5 vol%
Flash point	>150 °C
Auto-ignition temperature	>240 °C
pH (value)	not determined
Kinematic viscosity	35 mm ² /s at 40 °C
Solubility(ies)	not determined

Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	<0,1 hPa at 20 °C
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Density and/or relative density

Density	1,01 g/cm ³ at 20 °C
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Particle characteristics	not relevant (liquid)
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
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Other safety characteristics

Temperature class (EU, acc. to ATEX)	T3 (maximum permissible surface temperature on the equipment: 200°C)
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers, Zinc

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

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

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
alkanes, C14-17, chloro	85535-85-9	oral	LD50	>4.000 mg/kg	rat
alkanes, C14-17, chloro	85535-85-9	inhalation: vapour	LC50	>48.170 mg/m ³ /1h	rat
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	oral	LD50	>5.000 mg/kg	rat
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	inhalation: dust/mist	LC50	2,18 mg/l/4h	rat
Distillates (petroleum), hydro-treated light naphthenic	64742-53-6	dermal	LD50	>5.000 mg/kg	rabbit
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	oral	LD50	>5.000 mg/kg	rat
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	inhalation: dust/mist	LC50	2,18 mg/l/4h	rat
Distillates (petroleum), hydro-treated light paraffinic	64742-55-8	dermal	LD50	>5.000 mg/kg	rabbit

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Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
zinc bis[O,O-bis(2-ethylhexyl)] bis(di-thiophosphate)	4259-15-8	oral	LD50	3.100 mg/kg	rat
zinc bis[O,O-bis(2-ethylhexyl)] bis(di-thiophosphate)	4259-15-8	dermal	LD50	>5.000 mg/kg	rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

May cause harm to breast-fed children.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Acc. to 1272/2008/EC: Very toxic to aquatic life with long lasting effects.

Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV): WGK 2, obviously hazardous to water (Germany)

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
alkanes, C14-17, chloro	85535-85-9	LC50	>10.000 mg/l	fish	96 h
alkanes, C14-17, chloro	85535-85-9	EC50	0,008 mg/l	aquatic invertebrates	48 h

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Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
alkanes, C14-17, chloro	85535-85-9	ErC50	>3,2 mg/l	algae	72 h
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	LL50	>100 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	EL50	>10.000 mg/l	aquatic invertebrates	24 h
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	LL50	>100 mg/l	fish	96 h
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	EL50	>10.000 mg/l	aquatic invertebrates	24 h
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithio-phosphate)	4259-15-8	LL50	4,4 mg/l	fish	96 h
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithio-phosphate)	4259-15-8	LC50	46 mg/l	fish	96 h
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithio-phosphate)	4259-15-8	EL50	75 mg/l	aquatic invertebrates	48 h

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
alkanes, C14-17, chloro	85535-85-9	EC50	>0,1 mg/l	aquatic invertebrates	24 h
alkanes, C14-17, chloro	85535-85-9	LC50	0,025 mg/l	aquatic invertebrates	21 d
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	LL50	>10.000 mg/l	aquatic invertebrates	24 h
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	LL50	>10.000 mg/l	aquatic invertebrates	24 h
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithio-phosphate)	4259-15-8	EC50	380 mg/l	microorganisms	16 h

Biodegradation

Data are not available.

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12.2 Persistence and degradability

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
alkanes, C14-17, chloro	85535-85-9	oxygen depletion	≥13 – ≤66 %	28 d		ECHA
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8	oxygen depletion	<5 %	5 d		ECHA

12.3 Bioaccumulative potential

The substance fulfils the very bioaccumulative criterion.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
alkanes, C14-17, chloro	85535-85-9	6.660	≥4,7 – ≤8,3	
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	4259-15-8		3,59 (pH value: ~5, 22 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

The mixture contains substance(s) with an endocrine disrupting potential.

Endocrine disrupting chemicals (EDC)

Name of substance	CAS No	Combined category	Human health category	Wildlife category
alkanes, C14-17, chloro	85535-85-9	CAT1	CAT1	CAT3b

Legend

CAT1 Category 1 - evidence of endocrine disruption in at least one species using intact animals
CAT3b Category 3b - no evidence of endocrine disruption or no data available

12.7 Other adverse effects

Data are not available.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

Mineral-based chlorinated engine, gear and lubricating oils 13 02 04*

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

14.2 UN proper shipping name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (Hazardous ingredients)	alkanes, C14-17, chloro, 2-Ethylhexyl-zinkdithiophosphat

14.3 Transport hazard class(es)

ADR/RID/ADN	9
IMDG-Code	9
ICAO-TI	9

14.4 Packing group

ADR/RID/ADN	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment)	alkanes, C14-17, chloro, 2-Ethylhexyl-zinkdithiophosphat

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

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14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - additional information

Classification code M6
Danger label(s) 9, fish and tree



Environmental hazards yes (hazardous to the aquatic environment)
Special provisions (SP) 274, 335, 375, 601
Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
Transport category (TC) 3
Tunnel restriction code (TRC) -
Hazard identification No 90

International Maritime Dangerous Goods Code (IMDG) - additional information

Marine pollutant yes (hazardous to the aquatic environment) (alkanes, C14-17, chloro)
Danger label(s) 9, fish and tree



Special provisions (SP) 274, 335, 969
Excepted quantities (EQ) E1
Limited quantities (LQ) 5 L
EmS F-A, S-F
Stowage category A

International Civil Aviation Organization (ICAO-IATA/DGR) - additional information

Environmental hazards yes (hazardous to the aquatic environment)
Danger label(s) 9, fish and tree



Special provisions (SP) A97, A158, A197, A215
Excepted quantities (EQ) E1
Limited quantities (LQ) 30 kg

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SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

Substance of Very High Concern (SVHC)			
Name acc. to inventory	CAS No	Listed in	Remarks
Medium-chain chlorinated paraffins (MCCP)		Candidate list	PBT A57d vPvB A57e rem-49

Legend

candidate list	Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV
PBT A57d	Persistent, Bioaccumulative and Toxic (article 57d)
rem-49	Cd.sr.eu.svhc.remark.49
vPvB A57e	Very Persistent and very Bioaccumulative (article 57e)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
E1	environmental hazards (hazardous to the aquatic environment, cat. 1)	100 200	56)

Notation

56) hazardous to the Aquatic Environment in category Acute 1 or Chronic 1

VOC Deco-Paint Directive 2004/42/EC

VOC content	21,34 %
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Industrial Emissions Directive (IED)

VOC content	0 %
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

National regulations (Austria)

Ordinance on combustible liquids (VbF)

not applicable (mass fraction of liquids with a flash point of more than 100° C or of solids is higher than 30 %)

National regulations (Germany)

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Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances hazardous to water) (AwSV)

Wassergefährdungsklasse, WGK 2 obviously hazardous to water
(water hazard class)

National regulations Switzerland

Ordinance on the incentive tax on volatile organic compounds (VOCV)

The product is exempt from the tax. Product in which the VOC content does not exceed 3 per cent (% by weight).

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
AGW	Workplace exposure limit
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule

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Abbr.	Descriptions of used abbreviations
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
Lact.	Effects on or via lactation
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TRGS 900	Arbeitsplatzgrenzwerte (TRGS 900)
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

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Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H362	May cause harm to breast-fed children.
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.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.