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

1.1 Product identifier

grease

Article number: 31941, 31942

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

1 2 1 Relevant uses

Grease

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Ferdinand Bilstein GmbH + Co. KG

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms none
Signal word none

Hazard statements H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P273 Avoid release to the environment.

P501 Dispose of contents / container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Special labelling Contains: Zinc naphthenate, 5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione. EUH208 May

produce an allergic reaction.

2.3 Other hazards

Physico-chemical hazards No particular hazards known.

Human health dangers Frequent persistent contact with the skin can cause skin irritation.

Environmental hazardsDoes not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards none

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
5 - < 10	Dilithium azelate
	CAS: 38900-29-7, EINECS/ELINCS: 254-184-4, Reg-No.: 01-2120119814-57-XXXX
	GHS/CLP: Acute Tox. 4: H302
1 - < 2,5	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)
	CAS: 4259-15-8, EINECS/ELINCS: 224-235-5, Reg-No.: 01-2119493635-27-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Aquatic Chronic 2: H411
	SCL [%]: >50 - 100: Eye Dam. 1: H318
0,1 - < 1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
	CAS: 68411-46-1, EINECS/ELINCS: 270-128-1, Reg-No.: 01-2119491299-23-XXXX
	GHS/CLP: Repr. 2: H361f - Aquatic Chronic 3: H412
0,1 - < 1	5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione
	CAS: 72676-55-2, EINECS/ELINCS: 276-763-0, Reg-No.: 01-2120119820-64-XXXX
	GHS/CLP: Skin Sens. 1B: H317 - Aquatic Chronic 2: H411
0,25 - < 1	2,6-di-tert-butyl-p-cresol
	CAS: 128-37-0, EINECS/ELINCS: 204-881-4, Reg-No.: 01-2119555270-46-XXXX
	GHS/CLP: Aquatic Chronic 1: H410 - Aquatic Acute 1: H400,
	M-Factor (acute): 1, M-Factor (chronic): 1
0,1 - < 1	Zinc naphthenate
	CAS: 84418-50-8, EINECS/ELINCS: 282-762-6, Reg-No.: 01-2119988500-34-XXXX
	GHS/CLP: Skin Sens. 1: H317 - Aquatic Chronic 3: H412
0,1 - < 1	Hexanoic acid, 2-ethyl-, zinc salt, basic
	CAS: 85203-81-2, EINECS/ELINCS: 286-272-3, EU-INDEX: 607-230-00-6, Reg-No.: 01-2119979093-30-XXXX
	GHS/CLP: Repr. 1B: H360D - Eye Irrit. 2: H319 - Aquatic Chronic 3: H412

Comment on component parts For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Ingestion Seek medical advice immediately.

Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to your doctor.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not Full water jet

be used

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5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

Cool containers at risk with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

Forms slippery surfaces with water.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Do not eat, drink or smoke when using this product.

Use barrier skin cream.

Wash hands before breaks and after work.

Cloths contaminated with product should not be kept in trouser pockets.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container. Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep in a well-ventilated place. Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

Substance

2,6-di-tert-butyl-p-cresol

CAS: 128-37-0, EINECS/ELINCS: 204-881-4, Reg-No.: 01-2119555270-46-XXXX

Long-term exposure: 10 mg/m³

Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

DNEL

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Industrial, inhalative, Long-term - systemic effects, 1.76 mg/m³
Industrial, dermal, Long-term - systemic effects, 500 μg/kg bw/day
general population, inhalative, Long-term - systemic effects, 435 μg/m³
general population, dermal, Long-term - systemic effects, 250 μg/kg bw/day
general population, oral, Long-term - systemic effects, 250 μg/kg bw/day
Dilithium azelate, CAS: 38900-29-7
Industrial, dermal, Acute - local effects, 46 μg/cm ²
general population, dermal, Acute - systemic effects, 23 μg/cm ²
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
Industrial, dermal, Long-term - systemic effects, 9,6 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 6,6 mg/m³
general population, inhalative, Long-term - systemic effects, 1,67 mg/m³
general population, dermal, Long-term - systemic effects, 4,8 mg/kg bw/d
general population, oral, Long-term - systemic effects, 0,19 mg/kg bw/d
Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2
Industrial, inhalative, Long-term - systemic effects, 20.83 mg/m³
Industrial, dermal, Long-term - systemic effects, 6,41 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 10,42 mg/m³
general population, oral, Long-term - systemic effects, 3,21 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 3,21 mg/kg bw/d
Zinc naphthenate, CAS: 84418-50-8
There are no DNEL values established for the substance.
5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2
Industrial, inhalative, Long-term - systemic effects, 3.29 mg/m³ (AF=75)
Industrial, dermal, Long-term - systemic effects, 0.93 mg/kg bw/d (AF=300)
general population, dermal, Long-term - systemic effects, 0.33 mg/kg bw/d (AF=600)
general population, inhalative, Long-term - systemic effects, 0.56 mg/m³ (AF=150)
general population, oral, Long-term - systemic effects, 0.17 mg/kg bw/d (AF=600)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
Industrial, inhalative, Long-term - systemic effects, 0,31 mg/m³
Industrial, dermal, Long-term - systemic effects, 0,44 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,08 mg/m³
general population, dermal, Long-term - systemic effects, 0,22 mg/kg bw/day

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general population, oral, Long-term - systemic effects, 0,05 mg/kg bw/day

PNEC

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
freshwater, 199 ng/L
sediment (seawater), 19.9 ng/L
sewage treatment plants (STP), 17 μg/L
sediment (freshwater), 458.19 µg/kg sediment dw
sediment (seawater), 45.82 μg/kg sediment dw
oral (food), 16.67 mg/kg food
Dilithium azelate, CAS: 38900-29-7
freshwater, 23 μg/L
seawater, 2,3 µg/L
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
freshwater, 4 µg/L (AF= 100)
seawater, 4.6 µg/L (AF= 10 000)
sewage treatment plants (STP), 3.8 mg/L (AF= 100)
sediment (freshwater), 0.322 mg/kg dw
sediment (seawater), 0.0322 mg/kg dw
soil, 0.062 mg/kg dw
oral (food), 8.33 mg/kg food (AF=300)
Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2
freshwater, 89,6 µg/L
seawater, 26,5 µg/L
sewage treatment plants (STP), 226 μg/L
sediment (freshwater), 8,17 mg/kg sediment dw
sediment (seawater), 0,817 mg/kg sediment dw
soil, 1,36 mg/kg soil dw
Zinc naphthenate, CAS: 84418-50-8
freshwater, 6,39 µg/L
seawater, 0,64 µg/L
sewage treatment plants (STP), 147,73 μg/L
sediment (freshwater), 31,93 mg/kg Sediment dw
sediment (seawater), 3,19 mg/kg Sediment dw
soil, 6,38 mg/kg Boden dw
5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2
soil, 0.166 mg/kg soil dw
freshwater, 0.003 mg/L (AF=1000)
seawater, 0 mg/L (AF=10 000)
sewage treatment plants (STP), 0.31 mg/L (AF=10)
sediment (freshwater), 0.039 mg/kg dw
sediment (seawater), 0.004 mg/kg dw
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
freshwater, 0,034 mg/L
seawater, 0,003 mg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 0,446 mg/kg sediment dw
sediment (seawater), 0,045 mg/kg sediment dw

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soil, 17,6 mg/kg soil dw

oral (food), 0,833 mg/kg food

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

General exposure limit for oil mist should be noted.

Eye protection If there is a risk of splashing:

safety glasses

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information.

> 0,38 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protection Protective clothing (EN 340)

Other Personal protective equipment should be selected specifically for the working place,

depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

Avoid contact with eyes and skin.

Respiratory protection Not required under normal conditions.

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical statesolidFormpastyColorlight brownOdorcharacteristicOdour thresholdnot relevantpH-valuenot applicablepH-value [1%]not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flash point [°C] not applicable

Flammability no

Lower explosion limitNo information available.Upper explosion limitNo information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa] not applicable

Density [g/cm³] 1,15 (DIN 51757) (25°C / 77,0°F)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water immiscible

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

Kinematic viscosity NGLI 2

Relative vapour density

Melting point [°C]

Auto-ignition temperature [°C]

Decomposition temperature [°C]

Particle characteristics

No information available.

No information available.

No information available.

9.2 Other information

Drop point: 200°C

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

10.4 Conditions to avoid

Strong heating.

Safety Data Sheet (UK REACH) (UK) grease Article number 31941, 31942

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10.5 Incompatible materials

Oxidizing agent Strong acids. Strong bases.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

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

LC50, oral, Rat, > 5000 mg/kg, OECD 401

Product ATE-mix, oral, 37600 mg/kg bw Substance 2,6-di-tert-butyl-p-cresol, CAS: 128-37-0 LD50, oral, Rat, 2930 - 6000 mg/kg bw Dilithium azelate, CAS: 38900-29-7 LD50, oral, Rat, 300 mg/kg bw Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8 LD50, oral, Rat, 3100 mg/kg bw Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2 LD50, oral, Rat, 2000 - 5000 mg/kg bw Zinc naphthenate, CAS: 84418-50-8 LD50, oral, Rat, > 2000 mg/kg bw 5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2 LD50, oral, Rat, > 2000 mg/kg Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

Acute dermal toxicity

Product
dermal, Based on the available information, the classification criteria are not fulfilled.

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LD50, dermal, Rat, > 2000 mg/kg bw
Dilithium azelate, CAS: 38900-29-7
LD50, dermal, Rat, > 2000 mg/kg bw
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
LD50, dermal, Rabbit, 5000 mg/kg bw
Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2
LD50, dermal, Rat, > 2 000 mg/kg
Zinc naphthenate, CAS: 84418-50-8
LD50, dermal, Rat, > 2000 mg/kg bw
5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2
LD50, dermal, Rabbit, > 2000 mg/kg
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LD50, dermal, Rat, > 2000 mg/kg, OECD 402

Acute inhalational toxicity

Substance

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.





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Zinc naphthenate, CAS: 84418-50-8

LC50, inhalative, Rat, > 0.42 mg/l/4h

Serious eye damage/irritation

CAS 4259-15-8 (< 50%) Slight irritant effect - does not require labelling. Based on the available information, the classification criteria are not fulfilled. Classification was carried out based on substance-specific concentration limits.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

Eye, non-irritating

Dilithium azelate, CAS: 38900-29-7

Rabbit, OECD 406, non-irritating

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

Eye, Rabbit, OECD 405, corrosive

Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2

Eye, irritant

Zinc naphthenate, CAS: 84418-50-8

Eye, Rabbit, OECD 405, non-irritating

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

Eye, non-irritating

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

Eye, OECD 405, non-irritating

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

dermal, non-irritating

Dilithium azelate, CAS: 38900-29-7

dermal, non-irritating

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

dermal, Rabbit, OECD 404, non-irritating

Zinc naphthenate, CAS: 84418-50-8

dermal, Rabbit, OECD 404, non-irritating

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

dermal, non-irritating

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

dermal, non-irritating

Respiratory or skin sensitisation Based on the available information, the classification criteria are not fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

dermal, non-sensitizing

Dilithium azelate, CAS: 38900-29-7

dermal, mouse, OECD 429, non-sensitizing

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

dermal, Guinea pig, OECD 406, non-sensitizing

Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2

dermal, non-sensitizing

Zinc naphthenate, CAS: 84418-50-8

dermal, Guinea pig, OECD 406, sensitising

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5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

dermal, sensitising

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

dermal, Guinea pig, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity —

Based on the available information, the classification criteria are not fulfilled.

repeated exposure

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

NOAEL, oral, Rat, 25 - 70 mg/kg bw/day

Dilithium azelate, CAS: 38900-29-7

NOAEL, dermal, Rat, 298 mg/kg bw/day (systemic effects), no adverse effect observed

NOAEL, dermal, Rat, 230 µg/cm² (local effects), adverse effect observed

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

NOAEL, oral, Rat, 125 mg/kg bw/day

Zinc naphthenate, CAS: 84418-50-8

NOAEL, oral, Rat, 50 mg/kg bw/day

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

NOAEL, oral, Rat, 300 mg/kg bw/day

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Substance

2,6-di-tert-butyl-p-cresol, CAS: 128-37-0

in vitro, negativ

in vivo, negativ

Dilithium azelate, CAS: 38900-29-7

OECD 471, no adverse effect observed

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

InVitro, OECD 471, negativ

InVivo, OECD 474, negativ

Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2

in vitro, negativ

in vivo, negativ

Zinc naphthenate, CAS: 84418-50-8

InVitro, OECD 471, negativ

InVivo, OECD 474, negativ

5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2

in vitro, positive

in vivo, negativ

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

in vitro, negativ

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

- Fertility

Substance

Dilithium azelate, CAS: 38900-29-7

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NOAEL, Rat, 298,5 mg/kg bw/d (Effect on fertility), no adverse effect observed
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
NOAEL, Rat, 30 mg/kg bw/day, OECD 421
Zinc naphthenate, CAS: 84418-50-8
NOAEL, oral, Rat, 250 mg/kg bw/day
5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2
NOAEL, oral, Rat, 300 mg/kg bw/d (Effect on fertility)
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
NOAEL, oral, Rat, 54 mg/kg bw/day, adverse effect observed

- Development

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
NOAEL, oral, Rat, 25 mg/kg bw/day
Dilithium azelate, CAS: 38900-29-7
NOAEL, Rat, 298,5 mg/kg bw/d (Effect on developmental toxicity, no adverse effect observed
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
NOAEL, Rat, 30 mg/kg bw/day, OECD 421
Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2
NOAEL, oral, Rat, 100 mg/kg bw/day, adverse effect observed
Zinc naphthenate, CAS: 84418-50-8
NOAEL, oral, Rat. 188 mg/kg bw/day

CarcinogenicityBased on the available information, the classification criteria are not fulfilled.Aspiration hazardBased on the available information, the classification criteria are not fulfilled.

General remarks Frequent persistent contact with the skin can cause dermatitis.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

11.2 Information on other hazards

11.2.1 Endocrine disrupting

properties

Contains no ingredients with endocrine-disrupting properties.

11.2.2 Other information none

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SECTION 12: Ecological information

12.1 Toxicity

Substance
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LC50, (96h), fish, 199 - 570 µg/L
EC50, (48h), Invertebrates, 480 - 610 μg/L
EC50, (96h), Algae, 758 µg/L
NOEC, (21d), Invertebrates, 23 - 316 μg/L
NOEC, (33d), fish, 53 µg/L
Dilithium azelate, CAS: 38900-29-7
LC50, (96h), fish, 100 mg/L
EC50, (48h), Crustacea, 100 mg/L
EC50, (72h), Algae, 100 mg/L
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
EL50, (48h), Daphnia magna, 75 mg/l (OECD 202)
NOEC, (21d), Daphnia magna, 0,4 mg/l (OECD 211)
LL50, (96h), Rainbow trout, 4,4 mg/l (OECD 203)
ErL50, (72h), Scenedesmus subspicatus, 410 mg/l (OECD 201)
EbL50, (72h), Scenedesmus subspicatus, 240 mg/l (OECD 201)
Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2
LC50, (4d), fish, 112 - 100000 μg/L
LC50, (48h), Invertebrates, 95 - 1220 μg/L
EC50, (72h), Algae, 49,3 mg/L
Zinc naphthenate, CAS: 84418-50-8
LC50, (4d), fish, 112 - 5620 μg/L
EC50, (48h), Invertebrates, 155 - 20 000 μg/L
EC50, (72h), Algae, 3,62 - 29,6 mg/L
5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione, CAS: 72676-55-2
LC50, (96h), Pimephales promelas, > 454 mg/L
EC50, (48h), Daphnia magna, 3 mg/L
EC50, (72h), Pseudokirchneriella subcapitata, 20 mg/L
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LC50, (96h), fish, > 100 mg/kg (OECD 203)
EC50, (72h), Algae, > 100 mg/kg (OECD 201)
EC50, (48h), Daphnia magna, 51 mg/kg (OECD 202)

12.2 Persistence and degradability

Behaviour in environment

not determined

compartments

Behaviour in sewage plant not determined Biological degradability not determined

12.3 Bioaccumulative potential

No information available.

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12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

Do not discharge product unmonitored into the environment.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

In according to RoHS!

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 1201

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110* packaging containing residues of or contaminated by hazardous substances

150102

150104

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

not applicable

IMDG

Air transport in accordance with IATA not applicable

Safety Data Sheet (UK REACH) (UK) grease Article number 31941, 31942

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14.2 UN proper shipping name

Transport by land according to

ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

IMDG

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

not applicable

ADR/RID

Inland navigation (ADN) not applicable

Marine transport in accordance with not applicable

IMDG

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

IMDG

no

Inland navigation (ADN)

no

Marine transport in accordance with no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

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SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EG (2000/532/EC); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707

- Comment on component parts Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

- Annex I (REACH) The product is not subject to Annex I restrictions.

- Annex XIV (REACH) According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain

any substances ≥ 0.1% that are subject to authorisation.

- Annex XVII (REACH) According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains ≥ 0.1%

of substances with the following restrictions. 30, 72, 75

According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product is not subject to

any restrictions.

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

NATIONAL REGULATIONS (UK): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

- Observe employment restrictions

for people

- VOC (2010/75/CE) < 3 %

15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H360D May damage the unborn child. H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

H361f Suspected of damaging fertility.

H411 Toxic to aquatic life with long lasting effects.

H318 Causes serious eye damage.

H302 Harmful if swallowed.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level DNEL = Derived No Effect Level

EC50 = Median effective concentration ECB = European Chemicals Bureau EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score LC50 = Lethal concentration, 50%

LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position 1.3, 3.2, 4.2, 8.1, 9.1, 9.2, 11.1, 15.1, 16.2, 16.3