grease Article number 31941, 31942



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

1.1 Product identifier

grease

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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

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

Skin Sens. 1: H317 May cause an allergic skin reaction.

Repr. 2: H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

Hazard pictograms





Signal word WARNING

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

Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2 Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

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

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

H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary statements P273 Avoid release to the environment.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P280 Wear protective gloves.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

GHS.P501-2

P405 Store locked up.

P201 Obtain special instructions before use.

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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.

Other hazards None

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

SECTION 3: Composition / Information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
5 - < 10	Dilithium azelate
	CAS: 38900-29-7
1 - < 2.5	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)
	CAS: 4259-15-8
0.1 - < 1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
	CAS: 68411-46-1
0.1 - < 1	Hexanoic acid, 2-ethyl-, zinc salt, basic
	CAS: 85203-81-2
0.25 - < 1	Naphthenic acids, zinc salts, basic
	CAS: 84418-50-8
0.1 - < 1	5,5'-Dithiodi-1,3,4-thiadiazole-2(3H)-thione
	CAS: 72676-55-2
0.25 - < 1	2,6-di-tert-butyl-p-cresol
	CAS: 128-37-0

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

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

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the doctor.

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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

be used

Full water jet

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 (US)

Substance

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

CAS: 128-37-0

Long-term exposure: 10 mg/m³, ACGIH, 2 mg/m³ - inhalable fraction, vapor & aerosol (A4)

DNEL

Substance
Dilithium azelate, CAS: 38900-29-7
Industrial, dermal, Long-term - local effects, 172 μg/cm ²
general population, dermal, Acute - systemic effects, 23 μg/cm²
Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate), CAS: 4259-15-8
Industrial, inhalative, Long-term - systemic effects, 6.6 mg/m³
Industrial, dermal, Long-term - systemic effects, 9.6 mg/kg bw/d
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, dermal, Long-term - systemic effects, 6.41 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 20.83 mg/m³
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
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
Industrial, inhalative, Long-term - systemic effects, 5.8 mg/m³
Industrial, dermal, Long-term - systemic effects, 8.3 mg/kg
general population, inhalative, Long-term - systemic effects, 1.74 mg/m³
general population, dermal, Long-term - systemic effects, 5 mg/kg
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
Industrial, inhalative, Long-term - systemic effects, 0.31 mg/m³ (AF= 50)
Industrial, dermal, Long-term - systemic effects, 0.44 mg/kg bw/d (AF= 200)
general population, oral, Long-term - systemic effects, 0.05 mg/kg bw/d (AF= 400)
general population, inhalative, Long-term - systemic effects, 0.08 mg/m³ (AF= 100)
general population, dermal, Long-term - systemic effects, 0.22 mg/kg bw/d (AF= 400)

PNEC

Substance	
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	
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	

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soil, 0.062 mg/kg dw
oral (food), 8.33 mg/kg food (AF=300)
freshwater, 4 µg/L (AF= 100)
Hexanoic acid, 2-ethyl-, zinc salt, basic, CAS: 85203-81-2
seawater, 0.036 mg/L
sediment (seawater), 0.637 mg/kg sediment dw
sewage treatment plants (STP), 71.7 mg/L
sediment (seawater), 6.37 mg/kg sediment dw
freshwater, 0.36 mg/L
soil, 1.06 mg/kg
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
soil, 1.04 mg/kg
sewage treatment plants (STP), 100 mg/l
sediment (freshwater), 1.29 mg/kg
oral (food), 16.7 mg/kg
seawater, 0.0004 mg/l
freshwater, 0.004 mg/l
Naphthenic acids, zinc salts, basic, 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
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
oral (food), 833 μg/kg food
freshwater, 33.8 µg/L
seawater, 3.38 μg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 446 µg/kg sediment dw
sediment (seawater), 44.6 µg/kg sediment dw
soil, 17.6 mg/kg soil dw

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.

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.

> 0.11 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protection Protective clothing (EN 340)

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 Non

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 statepastyFormpastyColorlight brownOdorcharacteristicOdor thresholdNot applicablepH-valueNot applicablepH-value [1%]Not applicable

Boiling point [°C]No information available.

Flash point [°C] Not applicable

Flammability [°C] No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Oxidizing properties No

Vapor pressure/gas pressure [kPa] Not applicable

Density [g/cm³] 1.15 (DIN 51757) (25°C / 77,0°F)

Relative density

Bulk density [kg/m³]

Not applicable

Solubility in water

Not miscible

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] No information available.

Kinematic viscosity NGLI 2

Relative vapour density

Evaporation speed

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

None

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.

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10.5 Incompatible materials

Oxidizing agent Acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product

ATE-mix, oral, > 2000 mg/kg bw

Substance

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

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

LD50, oral, Rat, > 5000 mg/kg bw (OECD 401)

NOEL, oral, Rat, 25 mg/kg/28d

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

LD50, oral, Rat, > 2000 mg/kg bw

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

LD50, oral, Rat, >5000 mg/kg bw

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

Acute dermal toxicity

Product

dermal, Based on the information available, the classification criteria have not been fulfilled.

Substance

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

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

LD50, dermal, Rat, > 5000 mg/kg bw (OECD 402)

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

LD50, dermal, Rat, > 2000 mg/kg bw

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

LD50, dermal, Rat, >2000 mg/kg bw

Acute inhalational toxicity

Product

inhalative, Based on the information available, the classification criteria have not been fulfilled.

Substance

Naphthenic acids, zinc salts, basic, 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 information available, the classification criteria have not been fulfilled.

Substance

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

Eye, Rabbit, OECD 405, corrosive

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

Eye, Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

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

dermal, Rabbit, OECD 404, non-irritating

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

dermal, Rabbit, OECD 404, non-irritating

Respiratory or skin sensitisation

Toxicological data of complete product are not available.

May cause an allergic skin reaction.

Calculation method

Substance

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

dermal, Guinea pig, OECD 406, non-sensitizing

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

dermal, Guinea pig, OECD 406, sensitising

Specific target organ toxicity — single exposure

Based on the information available, the classification criteria have not been fulfilled.

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have not been fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

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

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

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

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

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

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

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

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

InVivo. OECD 474, negativ

InVitro, OECD 471, negativ

Naphthenic acids, zinc salts, basic, CAS: 84418-50-8

InVivo. OECD 474, negativ

InVitro, OECD 471, negativ

Reproduction toxicity

Based on the information available, the classification criteria have been fulfilled.

Suspected of damaging the unborn child.

Calculation method

- Fertility

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, Rat, 298.5 mg/kg bw/d (Effect on developmental toxicity, no adverse effect observed

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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		
Naphthenic acids, zinc salts, basic, CAS: 84418-50-8		
NOAEL, oral, Rat, 188 mg/kg bw/day		
NOAEL, oral, Rat, 250 mg/kg bw/day		

- Development

Substance	
Dilithium azelate, CAS: 38900-29-7	
NOAEL, Rat, 298.5 mg/kg bw/d (Effect on developmental toxicity, no adverse effect observed	
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	
Naphthenic acids, zinc salts, basic, CAS: 84418-50-8	
NOAEL, oral, Rat, 188 mg/kg bw/day	
NOAEL, oral, Rat, 250 mg/kg bw/day	
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1	
NOAEL, parenteral, 75 mg/kg bw/d, OECD 422	

Carcinogenicity
Aspiration hazard
General remarks

Based on the information available, the classification criteria have not been fulfilled. Based on the information available, the classification criteria have not been fulfilled.

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.

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SECTION 12: Ecological information

12.1 Toxicity

Substance
Dilithium azelate, CAS: 38900-29-7
LC50, (96h), fish, 100 mg/L
EC50, (48h), Crustacea, 100 mg/L
EC50, (72h), Algae, 23 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)
2,6-di-tert-butyl-p-cresol, CAS: 128-37-0
LC50, (96h), Danio rerio, > 0.57 mg/l
EC50, (48h), Daphnia magna, > 0.17 mg/l
IC50, (72h), Desmodesmus subspicatus, > 0.42 mg/l
NOEC, (21d), Daphnia magna, > 0.39 mg/l
Naphthenic acids, zinc salts, basic, CAS: 84418-50-8
LC50, (4d), fish, 112 - 5620 μg/L
EC50, (48h), Invertebrates, 155 - 20 000 μg/L
EC50, (4d), Algae, 18.1 - 80.5 mg/L
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LC50, (96h), fish, 100 mg/L
EC50, (72h), Invertebrates, 100 mg/L
EC50, (48h), Invertebrates, 51 mg/L
EL10, (21d), Invertebrates, 1.69 mg/L

12.2 Persistence and degradability

Behaviour in environment

compartments

Not determined

Behaviour in sewage plant Not determined
Biological degradability Not determined

12.3 Bioaccumulative potential

No information available.

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

No information available.

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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

Product

In according to RoHS!

Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

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

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

SECTION 14: Transport

14.1 UN number

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN) Not applicable

Marine transport in accordance with

IMDG

Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

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"

DOT Road Shipment Information (49 Not applicable

CFR)

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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

IMDG

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.4 Packing group

Transport by land according to ADR/RID

Inland navigation (ADN)

Not applicable

Not applicable

Marine transport in accordance with Not applicable

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.5 Environmental hazards

Transport by land according to

ADR/RID

No

Inland navigation (ADN)

No

Marine transport in accordance with No

IMDG

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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SECTION 15: Regulatory information

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

US Regulations

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

SARA, 302 No information available.
 SARA, 311 No information available.
 SARA, 313 No information available.

- CA Proposition 65 No components require labeling under California Proposition 65.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

FDA No information available.
 American Conference of No information available.

Governmental Industrial Hygienists -

ACGIH

International Agency for Research on No information available.

Cancer IARC

National Toxicology Program - NTP No information available.

HAP-VOC

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

15.2 Chemical safety assessment

Not applicable

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SECTION 16: Other information

16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

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;

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

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;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

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

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

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;

16.2 Ratings

grease Article number 31941, 31942



Ferdinand Bilstein GmbH + Co. KG

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NFPA Ratings



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2*- Moderate chronic Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard BOTTOM, SPECIAL NOTICE: -

HMIS Ratings



- 2*- Moderate chronic Hazard
- 1 Slight Hazard
- 0 Minimal Hazard
- X Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

SECTION 2 been added: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

SECTION 3 been added: Dilithium azelate

SECTION 3 been added: Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

SECTION 2 been added: H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

SECTION 2 deleted: H361d Suspected of damaging the unborn child.

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.



