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Date printed 20.02.2025, Revision 20.02.2025



Version 9.0. Supersedes version: 8.0

Page 1 / 15

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

1.1 Product identifier

Gear oil DCTF-2

Article number: 49700, 194479

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

1.2.1 Relevant uses

Gearbox oil

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 Call NHS 111 or a doctor +49 (0)89-19240 (24h) (English)

SECTION 2: Hazards identification

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

No classification.

2.2 Label elements

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

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

Special labelling EUH210 Safety data sheet available on request.

Contains: Maleic anhydride, 1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione]. EUH208 May produce an allergic reaction.

2.3 Other hazards

Human health dangers The substance/mixture does not contain components considered to have endocrine disrupting

properties according to REACH Article 57(f) or Commission Delegated regulation (EU)

2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels

of 0.1% or higher.

Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

Environmental hazards

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Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 2 / 15

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - < 90	1-Decene, homopolymer, hydrogenated
	CAS: 68037-01-4, EINECS/ELINCS: 500-183-1, Reg-No.: 01-2119486452-34-XXXX
	GHS/CLP: Asp. Tox. 1: H304
10 - < 20	1-Decene, Dimer, hydrogenated
	CAS: 68649-11-6, EINECS/ELINCS: 500-228-5, Reg-No.: 01-2119493069-28-XXXX
	GHS/CLP: Acute Tox. 4: H332 - Asp. Tox. 1: H304
1 - < 10	Distillates (petroleum), hydrotreated light paraffinic
	CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX
	GHS/CLP: Asp. Tox. 1: H304
1 - < 5	Isooctadecanoic acid, reaction products with tetraethylenepentamine
	CAS: -, EINECS/ELINCS: 701-204-9, Reg-No.: 01-2119960832-33-XXXX
	GHS/CLP: Skin Irrit. 2: H315 - Eye Irrit. 2: H319
0,1 - < 1	1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione]
	CAS: 64051-50-9, EINECS/ELINCS: 264-637-8
	GHS/CLP: Skin Sens. 1B: H317 - Aquatic Chronic 3: H412
0,0001 - < 0,001	Maleic anhydride
	CAS: 108-31-6, EINECS/ELINCS: 203-571-6, EU-INDEX: 607-096-00-9, Reg-No.: 01-2119472428-31-XXXX
	GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Eye Dam. 1: H318 - Skin Sens. 1A: H317 - Resp. Sens. 1: H334 - STOT RE 1: H372 - EUH071
	SCL [%]: >=0,001: Skin Sens. 1: H317

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

Contains less than 3% w/w DMSO-extract (only for mineral oils)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

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

Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

If swallowed or in the event of vomiting, risk of product entering the lungs.

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

be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

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Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 3 / 15

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

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

the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Some risk of slipping due to spillage of product.

Forms slippery surfaces with water.

6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

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

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. oil binder).

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

Avoid formation of aerosols.

Use only in well-ventilated areas.

The product is combustible.

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

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.

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

Contaminated work clothing should not be allowed out of the workplace.

Take off contaminated clothing and wash before reuse.

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 container 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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Date printed 20.02.2025, Revision 20.02.2025



Version 9.0. Supersedes version: 8.0

Page 4 / 15

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (UK)

Substance

1-Decene, homopolymer, hydrogenated

CAS: 68037-01-4, EINECS/ELINCS: 500-183-1, Reg-No.: 01-2119486452-34-XXXX

Long-term exposure: 5 mg/m³, OSHA PEL

Distillates (petroleum), hydrotreated light paraffinic

CAS: 64742-55-8, EINECS/ELINCS: 265-158-7, EU-INDEX: 649-468-00-3, Reg-No.: 01-2119487077-29-XXXX

Long-term exposure: 5 mg/m³, ACGIH TLV (OIL MIST)

Maleic anhydride

CAS: 108-31-6, EINECS/ELINCS: 203-571-6, EU-INDEX: 607-096-00-9, Reg-No.: 01-2119472428-31-XXXX

Long-term exposure: 1 mg/m³, Sen

Short-term exposure (15-minute): 3 mg/m³

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

not relevant

DNEL

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
There are no DNEL values established for the substance.
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
There are no DNEL values established for the substance.
Maleic anhydride, CAS: 108-31-6
Industrial, inhalative, Long-term - systemic effects, 81 μg/m³
Industrial, inhalative, Acute - systemic effects, 200 μg/m³
Industrial, inhalative, Long-term - local effects, 81 μg/m³
Industrial, inhalative, Acute - local effects, 200 μg/m³
Industrial, dermal, Long-term - systemic effects, 200 μg/kg bw/day
Industrial, dermal, Acute - systemic effects, 200 μg/kg bw/day
general population, inhalative, Long-term - systemic effects, 50 μg/m³
general population, inhalative, Long-term - local effects, 80 μg/m³
general population, dermal, Long-term - systemic effects, 100 μg/kg bw/day
general population, dermal, Acute - systemic effects, 100 μg/kg bw/day
general population, oral, Long-term - systemic effects, 60 μg/kg bw/day
general population, oral, Acute - systemic effects, 100 μg/kg bw/day
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -
There are no DNEL values established for the substance.
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
Industrial, inhalative, Long-term - systemic effects, 2,73 mg/m³
Industrial, inhalative, Long-term - local effects, 5,58 mg/m³
Industrial, dermal, Long-term - systemic effects, 0,97 mg/kg
general population, oral, Long-term - systemic effects, 0,74 mg/kg

PNEC

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
There are no PNEC values established for the substance.
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
freshwater, 0,006 mg/L
seawater, 0,006 mg/L
sediment (freshwater), 0,848mg/kg sediment dw
sediment (seawater), 0,848mg/kg sediment dw



Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 5 / 15

Maleic anhydride, CAS: 108-31-6
freshwater, 0,038 mg/L
seawater, 0,004 mg/L
sewage treatment plants (STP), 44,6 mg/L
sediment (freshwater), 0,296 mg/kg sediment dw
sediment (seawater), 0,03 mg/kg sediment dw
soil, 0,037 mg/kg soil dw
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -
freshwater, 460 μg/L
seawater, 46 μg/L
sediment (freshwater), 38100 mg/kg sediment dw
sewage treatment plants (STP), 1 g/l
sediment (seawater), 3810 mg/kg sediment dw
soil, 10 mg/kg soil dw
oral (food), 33.3 mg/kg food
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
oral (food), 9,33 mg/kg

8.2 Exposure controls

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 Safety glasses. (EN 166:2001)

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

information.

Nitrile butyl rubber (NBR) > 0,38mm:, (EN 374-1/-2/-3).

Skin protection light protective clothing

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.

Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin.

Respiratory protection Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

Thermal hazards No information available.

Delimitation and monitoring of the

environmental exposition

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

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Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 6 / 15

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateliquidFormliquidColorlight yellowOdorcharacteristic

Odour threshold No information available.

pH-valuepH-value [1%]Boiling point or initial boiling pointnot applicablenot applicable

and boiling range [°C]

Flash point [°C] 205

Flammability Not highly flammable.

Lower explosion limit not applicable
Upper explosion limit not applicable

Oxidising properties no

Vapour pressure/gas pressure [kPa] not determined

Density [g/cm³] 0,83 (15 °C / 59,0 °F)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water virtually insoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

(log value)

Kinematic viscosity 23,5 mm²/s 40°C

Relative vapour density No information available.

Melting point [°C] No information available.

Auto-ignition temperature [°C] not applicable

 $\label{lem:composition} \textbf{Decomposition temperature [°C]} \qquad \text{No information available.}$

Particle characteristics not applicable

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

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

No special measures necessary.

10.5 Incompatible materials

Strong oxidizing agent. Strong acids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025



Version 9.0. Supersedes version: 8.0 Page 7 / 15

SECTION 11: Toxicological information

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

Product

ATE-mix, oral, > 5000 mg/kg bw

Substance

1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

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

NOAEL, oral, Rat, 1000 - 6771 mg/kg bw/day

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

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

Maleic anhydride, CAS: 108-31-6

LD50, oral, Rat, 1090 mg/kg bw

NOAEL, oral, Rat, 10 - 250 mg/kg bw/day

1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione], CAS: 64051-50-9

LD50, oral, Rat, 2000 mL/kg bw

NOAEL, oral, Rat, 1000 mg/kg bw

Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -

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

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

no adverse effect observed (by analogy with similar substances), (CAS 64742-56-9),

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

Acute dermal toxicity

Product

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

Substance

1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

LD50, dermal, Rat, >2000 mg/kg bw, OECD 402

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

LD50, dermal, Rabbit, > 3000 mg/kg bw

Maleic anhydride, CAS: 108-31-6

LD50, dermal, Rabbit, 2620 mg/kg bw

1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione], CAS: 64051-50-9

LD50, dermal, Rat, 2000 mg/kg bw

Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -

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

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

no adverse effect observed (by analogy with similar substances), (CAS 64742-56-9),

LD50, dermal, Rabbit, > 5000 mg/kg, OECD 402

Acute inhalational toxicity

Product

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

Substance

1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

LC50, inhalative, Rat, >5.2 mg/L air, OECD 403, no adverse effect observed

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

LC50, inhalative, Rat, > 1,81 mg/L air, 4h

Maleic anhydride, CAS: 108-31-6



Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 8 / 15

NOAEC, inhalative, Rat, 3.3 mg/m³ air

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

LC50, inhalativ (mist), Rat, > 5,53 mg/l, OECD 403, 4h

Serious eye damage/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

Eye, non-irritating

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

Eye, no adverse effect observed

Maleic anhydride, CAS: 108-31-6

Eye, Rabbit, OECD 405, Can cause irreversible damage to the eyes.

Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -

Eye, irritant

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

Rabbit (eye), OECD 405, non-irritating

Skin corrosion/irritation

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

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

dermal, non-irritating

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

dermal, no adverse effect observed

Maleic anhydride, CAS: 108-31-6

dermal, Rabbit, OECD 404, corrosive

Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -

dermal, irritant

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

Rabbit, in vivo, non-irritating

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

Substance

1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4

dermal, non-sensitizing

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

dermal, Guinea pig, OECD 406, non-sensitizing

Maleic anhydride, CAS: 108-31-6

dermal, mouse, OECD 429, sensitising

inhalative, Rat, In vivo study, sensitising

Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -

dermal, non-sensitizing

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

dermal, Guinea pig, OECD 406, non-sensitizing

Specific target organ toxicity — single exposure

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — repeated exposure

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

Substance

1-Decene, Dimer, hydrogenated, CAS: 68649-11-6

NOAEL, oral, Rat, 1000 - 6771 mg/kg bw/day

Maleic anhydride, CAS: 108-31-6

NOAEL, oral, Dog, 60 mg/kg bw/day, OECD 409, no adverse effect observed

NOAEC, inhalative, Rat, 3,3 mg/m³, In vivo study, adverse effect observed

Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

'

Page 9 / 15

Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS:
NOAEL, oral, Rat, 1000 mg/kg bw/day

Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

no adverse effect observed (by analogy with similar substances), (CAS 64742-04-7),

NOAEL, dermal, Rat, >= 2000 mg/kg, OECD 411

NOAEL, inhalative, Rat, > 980 mg/m³, OECD 412

LOAEL, oral, Rat, 125 mg/kg, OECD 408

Mutagenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
in vitro, negativ
in vivo, negativ
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
in vivo, no adverse effect observed
Maleic anhydride, CAS: 108-31-6
in vitro, OECD 471, negativ
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -
in vitro, negativ
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
in vitro, OECD 471, negativ
in vivo, OECD 474, negativ

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

- Fertility

- Development

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
NOAEL, oral, Rat, 1000 mg/kg bw/day, no adverse effect observed
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
NOAEL, oral, Rat, 1000 mg/kg bw/day
Maleic anhydride, CAS: 108-31-6
NOAEL, oral, Rat, 140 mg/kg bw/day, OECD 414, no adverse effect observed
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -
NOAEL, oral, Rat, >= 1000 mg/kg bw/day
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
NOAEL, Rat, 2000 mg/kg, OECD 414
LOAEL, Rat, 125 mg/kg, OECD 414

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled.

Substance



Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 10 / 15

Maleic anhydride, CAS: 108-31-6

NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 451, no adverse effect observed

Aspiration hazard General remarks Based on the available information, the classification criteria are not 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.

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

SECTION 12: Ecological information

12.1 Toxicity

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

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
EL50, (48h), Invertebrates, >1000mg/L
NOELR, (21d), Invertebrates, 125mg/L
NOELR, (72h), Algae, 1000 mg/L
LL50, (96h), Fish, >1000mg/L
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
LL50, (96h), Fish, > 1000 mg/L
Maleic anhydride, CAS: 108-31-6
LC50, (96h), Fish, 75 mg/L
EC50, (48h), Invertebrates, 42,81 - 330 mg/L
EC50, (72h), Algae, 74.35 - 150 mg/L
1,1'-[iminobis(ethyleneiminoethylene)]bis[3-(octadecenyl)pyrrolidine-2,5-dione], CAS: 64051-50-9
EC50, (48h), Fish, 73.4 mg/L
EC50, (72h), Algae, 48.9 - 100 mg/L
NOEC, (72h), Algae, 32 - 100 mg/L
NOEC, (48h), Fish, 46 mg/L
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: -
LC50, (96h), Fish, 1 g/L
EC50, (48h), Invertebrates, 1 g/L
EC50, (96h), Algae, 44 - 94 mg/L
NOEC, (21d), Invertebrates, 32 mg/L
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
LC50, (96h), Pimephales promelas, > 100 mg/l, OECD 203
EL50, (48h), Daphnia magna, > 10 000 mg/l, OECD 202
NOELR, (14d), Oncorhynchus mykiss, >= 1000 mg/l
NOEL, (72h), Pseudokirchneriella subcapitata, >= 100 mg/l, OECD 201
NOEL, (21d), Daphnia magna, 10 mg/l, OECD 211
NOEL, (72h), Pseudokirchneriella subcapitata, >= 100 mg/l, OECD 201

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Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 11 / 15

12.2 Persistence and degradability

Does not contain a relevant substance that meets the classification criteria.

Behaviour in environment

Behaviour in sewage plant

Biological degradability

not determined

compartments

not determined

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
EC50, (16h), Microorganisms, 10 g/L
EL50, (48h), Invertebrates, 1 g/L
EL50, (48h), Algae, 1 g/L
LL50, (96h), Fish, 1 g/L
Maleic anhydride, CAS: 108-31-6
(28d), > 90 %, OECD 301 B, The product is readily biodegradable.
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
(28d), 2 - 4 %, OECD 301 B
(28d), 31,13 %, OECD 301 F
The product is not readily biodegradable.

12.3 Bioaccumulative potential

No information available.

Substance	
Maleic anhydride, CAS: 108-31-6	
og Pow, -2,61	

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 or into the drainage. $\label{eq:control}$

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

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Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 12 / 15

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

Disposal in an incineration plant in accordance with the regulations of the local authorities.

In according to RoHS!

Waste no. (recommended) 130206*

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

IMDG

not applicable

Air transport in accordance with IATA not applicable

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

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Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025

Version 9.0. Supersedes version: 8.0

Page 13 / 15

14.4 Packing group

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

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN) no

Marine transport in accordance with n

IMDG

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

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 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. 75

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

any restrictions.

TRANSPORT-REGULATIONS ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2025)

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

REACH; GB CLP.

- Observe employment restrictions

for people

no

- VOC (2010/75/CE) <1 %

15.2 Chemical safety assessment

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

Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025



Version 9.0. Supersedes version: 8.0 Page 14 / 15

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H332 Harmful if inhaled.

EUH071 Corrosive to the respiratory tract.

H372 Causes damage to organs through prolonged or repeated exposure.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H318 Causes serious eye damage.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H412 Harmful to aquatic life with long lasting effects.

H317 May cause an allergic skin reaction.

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

I Q = I imited 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

Modified position 1.3, 2.3, 3.2, 8.1, 9.1, 11.1, 15.1, 16.2, 16.3

Ferdinand Bilstein GmbH + Co. KG

Date printed 20.02.2025, Revision 20.02.2025



Version 9.0. Supersedes version: 8.0

Page 15 / 15