

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
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58256 Ennepetal / GERMANY
Phone +49 2333 911-0
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Homepage www.febi.com
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Address enquiries to

Technical information info@febi.com
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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]

No classification.

2.2 Label elements

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

Hazard pictograms none

Signal word none

Hazard statements none

Precautionary statements none

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

Environmental hazards Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

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

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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: 68784-17-8, EINECS/ELINCS: 272-225-4, 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. 1A: 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

No information available.

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.

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 with 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 with 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

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/m ³ , 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/m ³ , 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/m ³ , Sen
Short-term exposure (15-minute): 3 mg/m ³

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

not relevant

DNEL

Substance
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
Industrial, inhalative, Acute - systemic effects, 60 mg/m ³
general population, inhalative, Acute - systemic effects, 50 mg/m ³
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
Industrial, inhalative, Long-term - systemic effects, 2,73 mg/m ³
Industrial, inhalative, Long-term - local effects, 5,58 mg/m ³
Industrial, dermal, Long-term - systemic effects, 0,97 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,74 mg/kg bw/day
Maleic anhydride, CAS: 108-31-6
Industrial, inhalative, Long-term - systemic effects, 81 µg/m ³
Industrial, inhalative, Acute - systemic effects, 200 µg/m ³
Industrial, inhalative, Long-term - local effects, 81 µg/m ³
Industrial, inhalative, Acute - local effects, 200 µg/m ³
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/m ³
general population, inhalative, Long-term - local effects, 80 µg/m ³
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: 68784-17-8
Industrial, inhalative, Long-term - systemic effects, 11,75 mg/m ³
Industrial, dermal, Long-term - systemic effects, 3,33 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 2,9 mg/m ³
general population, dermal, Long-term - systemic effects, 1,67 mg/kg bw/day
general population, oral, Long-term - systemic effects, 1,67 mg/kg bw/day

PNEC

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
oral (food), 9,33 mg/kg food
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: 68784-17-8
freshwater, 0.46 mg/L
sediment (seawater), 0,046 mg/L 0,46 mg/L 0,46 mg/L 0,46 mg/L
sewage treatment plants (STP), 1000 mg/L 0,46 mg/L 0,46 mg/L 0,46 mg/L
sediment (freshwater), 38100 mg/kg sediment dw 0,46 mg/L 0,46 mg/L 0,4
sediment (seawater), 3810 mg/kg sediment dw 0,46 mg/L 0,46 mg/L 0,46
soil, 10 mg/kg soil dw 0,46 mg/L 0,46 mg/L 0,46 mg/L
oral (food), 33,3 mg/kg food 0,46 mg/L 0,46 mg/L 0,46 mg/L

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	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0,4mm: Nitrile rubber, >120 min (EN 374-1/-2/-3). > 0,4mm: butyl rubber, > 120 min (EN 374)
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Form	liquid
Color	light yellow
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point or initial boiling point and boiling range [°C]	not applicable
Flash point [°C]	205
Flammability	Not explosive.
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm ³]	0,83 (15 °C / 59,0 °F)
Relative density	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient n-octanol/water (log value)	No information available.
Kinematic viscosity	23,5 mm ² /s 40°C
Relative vapour density	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.
Particle characteristics	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

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.

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, Dimer, hydrogenated, CAS: 68649-11-6
LD50, oral, Rat, > 5000 mg/l
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
LD50, oral, Rat, 2000 - 5000 mg/kg bw
LD50, oral, Rat, >5000 mg/kg, no adverse effect observed
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
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
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: 68784-17-8
LD50, oral, Rat, >5000 mg/kg bw (OECD 401) >5000 mg/kg bw (OECD 40)

Acute dermal toxicity

Product
ATE-mix, dermal, 102.244 mg/kg bw
Substance
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
LD50, dermal, Rabbit, > 3000 mg/l
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
LD50, dermal, Rat, >2000 mg/kg bw, OECD 402
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
LD50, dermal, Rabbit, > 2000 - 5000 mg/kg bw
Maleic anhydride, CAS: 108-31-6
LD50, dermal, Rabbit, 2620 mg/kg bw
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: 68784-17-8
LD50, dermal, Rabbit, >2000 mg/kg bw (OECD 402) >5000 mg/kg bw (OECD 40)

Acute inhalational toxicity

Product
ATE-mix, inhalativ (mist), 14,93 mg/l
Substance
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
LC50, inhalative, Rat, >1,81 mg/l 4h
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
LC50, inhalative, Rat, >5.2 mg/L air, OECD 403, no adverse effect observed
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8

LC50, inhalative, Rat, 2,18 - 5,53 mg/L air 4h, 4h
Maleic anhydride, CAS: 108-31-6
NOAEC, inhalative, Rat, 3.3 mg/m ³ air

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

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
OECD 404, non-irritating
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
Eye, non-irritating
Maleic anhydride, CAS: 108-31-6
Eye, Rabbit, OECD 405, Can cause irreversible damage to the eyes.

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
OECD 405, non-irritating
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
dermal, non-irritating
Maleic anhydride, CAS: 108-31-6
dermal, Rabbit, OECD 404, corrosive

Respiratory or skin sensitisation Toxicological data of complete product are not available.
May produce an allergic reaction.
Calculation method

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
non-sensitizing
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
dermal, non-sensitizing
Maleic anhydride, CAS: 108-31-6
dermal, mouse, OECD 429, sensitising
inhalative, Rat, In vivo study, sensitising

Specific target organ toxicity — single exposure Based on the available information, the classification criteria are not fulfilled.

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
inhalative, no adverse effect observed

Specific target organ toxicity — repeated exposure Based on the available information, the classification criteria are not fulfilled.

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
oral, Rat, no adverse effect observed
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
NOAEC, inhalative, Rat, 980 mg/m ³ (subacute), no adverse effect observed
LOAEL, oral, Rat, 125 mg/kg bw/day, The effects observed are not sufficient for classification.
LOAEL, dermal, mouse, 100 mg/kg bw/day (chronic), The effects observed are not sufficient for classification.

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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/m ³ , In vivo study, adverse effect observed

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

Substance
1-Decene, homopolymer, hydrogenated, CAS: 68037-01-4
no adverse effect observed
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
in vitro, negativ
Maleic anhydride, CAS: 108-31-6
in vitro, OECD 471, negativ

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

- Fertility

Substance
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
NOAEL, oral, Rat, 1000 mg/kg bw/d, no adverse effect observed
Maleic anhydride, CAS: 108-31-6
NOAEL, oral, Rat, 55 mg/kg bw/day, OECD 416, no adverse effect observed

- Development

Substance
Maleic anhydride, CAS: 108-31-6
NOAEL, oral, Rat, 140 mg/kg bw/day, OECD 414, no adverse effect observed

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

Substance
Maleic anhydride, CAS: 108-31-6
NOAEL, oral, Rat, 100 mg/kg bw/day, OECD 451, no adverse effect observed

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

General remarks

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
Based on the available information, the classification criteria are not fulfilled.
Substance
1-Decene, Dimer, hydrogenated, CAS: 68649-11-6
EC50, (48h), Daphnia magna, > 1000 mg/l
EL50, (72h), Algae, >1000 mg/l
NOELR, (21d), Daphnia magna, 125 mg/l
LL50, (96h), Oncorhynchus mykiss, >1000 mg/l
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
Distillates (petroleum), hydrotreated light paraffinic, CAS: 64742-55-8
NOELR, (14d), fish, 1 g/L
LL50, (96h), Invertebrates, 10 g/L
LL50, (96h), fish, 100 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
Isooctadecanoic acid, reaction products with tetraethylenepentamine, CAS: 68784-17-8
LC50, (96h), Pimephales promelas, >1000 mg/L (OECD 203) >1000 mg/L (OECD 203)
EC50, (48h), Daphnia magna, >1000 mg/L (OECD 202) >1000 mg/L (OECD 203)
EC50, (96h), Pseudokirchneriella subcapitata, 44 mg/L (OECD 201) >1000 mg/L (OECD 203)
EL50, (14d), Daphnia magna, 72 mg/L (OECD 211) >1000 mg/L (OECD 203)

12.2 Persistence and degradability

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

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

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.

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

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

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

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

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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 not applicable

Air transport in accordance with IATA not applicable

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 IMDG 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

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 \geq 0.1% that are subject to authorisation.
- Annex XVII (REACH)	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains \geq 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 (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	no
- VOC (2010/75/CE)	<1 %

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)

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.
H332 Harmful if inhaled.
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.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

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

Modified position none