

SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878



GREASE FT4 F.FLEX.SHAFTS

Product number 157

Version: 5.0
Replaces version: 4.0

Revision date: 28.8.2025
Date of print: 5.9.2025

Page: 1 of 13
Language: en-DE,AT,GB

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

1.1 Product identifier

Trade name: GREASE FT4 F.FLEX.SHAFTS

This safety data sheet pertains to the following products:
86396010 = GREASE FT4 F.FLEX.SHAFTS

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

General use: Lubricating grease.
For industrial purposes only

1.3 Details of the supplier of the safety data sheet

Company name: August Rüggeberg GmbH & Co. KG
Pferd-Werkzeuge
Street/POB-No.: Hauptstraße 13
Postal Code, city: 51709 Marienheide
Germany
WWW: www.pferd.com
E-mail: info@pferd.com
Telephone: +49 (0)2264-9-0
Telefax: +49 (0)2264-9-400

Department responsible for information:
Telephone: +49 (0) 2264-9-0

1.4 Emergency telephone number

Germany: 0800-181-5313
Austria: 0800-802278
France: 0805-089352
Italy: 800-794-834
Bulgaria: 359-32571722
Poland: +48-223073296
Sweden: 020-889-215
Greece: 30-2111981153
Other EU-Countries: 1-813-248-0585

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

2.2 Label elements

Labelling (CLP)

Hazard statements: not applicable

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Precautionary statements: not applicable

Special labelling

EUH210

Safety data sheet available on request.

2.3 Other hazards

No risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product 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% (w/w) or higher. The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mineral oil, Lithium-soap

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119484627-25-xxxx EC No. 265-157-1 CAS 64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic not classified	50 - 70 %
REACH 01-2119467170-45-xxxx EC No. 265-155-0 CAS 64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic not classified	20 - 30 %
REACH 01-2119978241-36-xxxx list no. 939-603-7 CAS 1471316-72-9	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300 Skin Sens. 1B; H317. Specific concentration limits (SCL): Skin Sens. 1B; H317: C ≥ 10 %	< 1 %
REACH 01-2119491299-00-xxxx EC No. 270-128-1 CAS 68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene Repr. 2; H361f.	< 1 %

Full text of H- and EUH-statements: see section 16.

Additional information: The highly refined mineral oil contains <3% (w/w) DMSO extract, according to IP346.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.

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Following skin contact: Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After swallowing: Rinse mouth. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: metallic oxides, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained breathing apparatus. Use personal protection equipment. Inhaling hazardous decomposing products can cause serious health damage.

Additional information:

Hazchem-Code: -

Usual measures for fire prevention.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to come into the canalization/surface waters/ground water . If necessary, notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe dust. Wear appropriate protective equipment.
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Storage class: 11 = Combustible solids that cannot be assigned to any of the above storage classes

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Type	Limit value
Austria: MAK Kurzzeit-Mittelwert	10 mg/m ³ (Dust limit value, respirable fraction)
Austria: MAK Kurzzeit-Mittelwert	20 mg/m ³ (Dust limit value, inhalable fraction)
Austria: MAK Langzeit-Mittelwert	10 mg/m ³ (Dust limit value, inhalable fraction)
Austria: MAK Langzeit-Mittelwert	5 mg/m ³ (Dust limit value, respirable fraction)
Germany: DFG Kurzzeit	2,4 mg/m ³ (Dust limit value, respirable fraction)
Germany: DFG Langzeit	0,3 mg/m ³ (Dust limit value, respirable fraction)
Germany: DFG Langzeit	4 mg/m ³ (Dust limit value, inhalable fraction)
Germany: TRGS 900 Kurzzeit	2,5 mg/m ³ (Dust limit value, respirable fraction)
Germany: TRGS 900 Kurzzeit	20 mg/m ³ (Dust limit value, inhalable fraction)
Germany: TRGS 900 Langzeit	1,25 mg/m ³ (Dust limit value, respirable fraction)
Germany: TRGS 900 Langzeit	10 mg/m ³ (Dust limit value, inhalable fraction)
Great Britain: WEL-TWA	10 mg/m ³ (Dust limit value, inhalable fraction)
Great Britain: WEL-TWA	4 mg/m ³ (Dust limit value, respirable fraction)

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DNEL/DMEL:	Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7): DNEL, workers, inhalative, systemic, long-term: 2,73 mg/m³ DNEL, workers, inhalative, local, long-term: 5,6 mg/m³ DNEL, workers, dermal, systemic, long-term: 0,97 mg/kg bw/d Information about Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5): DNEL, workers, inhalative, systemic, long-term: 2,73 mg/m³ DNEL, workers, inhalative, local, long-term: 5,6 mg/m³ DNEL, workers, dermal, systemic, long-term: 0,97 mg/kg bw/d Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300 (EC 939-603-7): DNEL, workers, inhalative, systemic, long-term: 35,26 mg/m³ DNEL, workers, dermal, systemic, long-term: 25 mg/kg Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS 68411-46-1): DNEL, workers, dermal, systemic, long-term: 0,44 mg/kg bw/d
PNEC:	Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7): PNEC, Secondary Poisoning: 9,33 mg/kg Food Information about Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5): PNEC, Secondary Poisoning: 9,33 mg/kg Food Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300 (EC 939-603-7): PNEC, water (freshwater): 0,1 mg/L PNEC, water (marine water): 0,1 mg/L PNEC, sediment (freshwater): 45.211 mg/kg dw PNEC, sediment (marine water): 45.211 mg/kg dw PNEC, soil: 36.739 mg/kg dw PNEC, sewage treatment plant: 1.000 mg/L Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS 68411-46-1): PNEC, water (freshwater): 0,034 mg/L PNEC, water (freshwater, intermittent release): 0,51 mg/L PNEC, water (marine water): 0,003 mg/L PNEC, sediment (freshwater): 0,446 mg/kg dw PNEC, sediment (marine water): 0,045 mg/kg dw PNEC, soil: 3,71 mg/kg dw PNEC, sewage treatment plant: 10 mg/L

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection:	In case of dust formation: Particulates filter P1 according to EN 143.
Hand protection:	Protective gloves according to DIN EN ISO 374-1. Glove material: Nitrile rubber Breakthrough time: >10 min Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Eye protection:	Tightly sealed goggles according to DIN EN ISO 16321-1.

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Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe dust. Do not get in eyes, on skin, or on clothing.

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

Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.

Environmental exposure controls

Refer to "6.2 Environmental precautions".

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	solid
Colour:	Form: Paste Beige
Odour:	Characteristic
Melting point/freezing point:	No data available
Boiling point:	No data available
Flammability:	Combustible solids.
Lower and upper explosion limit:	Not applicable
Flash point:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
pH:	Not applicable
Kinematic viscosity:	Not applicable
Water solubility:	insoluble
Partition coefficient n-octanol/water (log value):	10,16 - 24,90 log P(o/w) (Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7)) Based on the n-octanol/water partition coefficient accumulation in organisms is possible. 5,20 - 10,82 log P(o/w) (Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS 68411-46-1)) Based on the n-octanol/water partition coefficient accumulation in organisms is possible. at 20 °C: 6,91 log P(o/w) (Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300 (EC 939-603-7)) Based on the n-octanol/water partition coefficient accumulation in organisms is possible.
Vapour pressure:	at 20 °C: < 0,001 hPa
Density:	at 20 °C: 0,91 g/cm ³
Relative vapour density:	Not applicable
Particle characteristics:	No data available

9.2 Other information

Explosive properties: Not explosive
Oxidizing characteristics: No data available

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Auto-ignition temperature: No data available
Bulk density: not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: No data available

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SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 5.000 mg/kg.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 5.000 mg/kg.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated, dust/mist): > 5 mg/L

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):
LD50 Rat, oral: > 5.000 mg/kg (OECD 401)
LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)
LC50 Rat, inhalative (dust/mist): > 5,53 mg/L/4h (OECD 403)

Information about Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5):
LD50 Rat, oral: > 5.000 mg/kg (OECD 401)
LD50 Rabbit, dermal: > 5.000 mg/kg (OECD 402)
LC50 Rat, inhalative (dust/mist): > 5,53 mg/L/4h (OECD 403)

Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300 (EC 939-603-7):
LD50 Rat, oral: > 10.000 mg/kg
LD50 Rabbit, dermal: > 2.000 mg/kg
LC50 Rat, inhalative (dust/mist): > 1,9 mg/L/4h

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS 68411-46-1):
LD50 Rat, oral: > 5.000 mg/kg
LD50 Rat, dermal: > 2.000 mg/kg (OECD 402)

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Information about Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 10.000 mg/L/48h (OECD 202)

NOEC Daphnia magna (Big water flea): 10 mg/L/21d (OECD 211)

Information about Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5):

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 10.000 mg/L/48h (OECD 202)

NOELR Daphnia magna (Big water flea): 10 mg/L/21d (OECD 211)

Algae toxicity:

LC50 Pseudokirchneriella subcapitata (green algae): > 100 mg/L/72h (OECD 201)

Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN <300 (EC 939-603-7):

Fish toxicity:

LC50 Oncorhynchus mykiss: > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 100 mg/L/48h (OECD 202)

Algae toxicity:

NOELR Desmodesmus subspicatus (green algae): > 100 mg/L/72h (OECD 201)

EL50 Desmodesmus subspicatus (green algae): > 100 mg/L/72 h (OECD 201)

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

Fish toxicity:

LC50 Danio rerio (zebrafish): > 100 mg/L/96h (OECD 203)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 51 mg/L/48h (OECD 202)

EL10 Daphnia magna (Big water flea): 1,69 mg/L/21d

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): > 100 mg/L/72h (OECD 201)

Water Hazard Class:

1 = slightly hazardous to water

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12.2 Persistence and degradability

Further details: Distillates (petroleum), hydrotreated heavy paraffinic (CAS 64742-54-7):
Biodegradation: activated sludge 3%/28d, (OECD 301B)
Not easily bio-degradable.

Information about Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)
Biodegradability: activated sludge, 3%/28d, (OECD 301B)
Not easily bio-degradable.

Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN
<300 (EC 939-603-7):
Biodegradation: 8%/28d, (OECD 301D)
Not easily bio-degradable

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
(CAS 68411-46-1):
Biodegradation: 1%/28d, (OECD 301B)
Not easily bio-degradable

Effects in sewage plants: Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN
<300 (EC 939-603-7):
EC50 activated sludge: > 10.000 mg/L/3h (OECD 209)

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
(CAS 68411-46-1):
EC50 activated sludge: > 100 mg/L/3h (OECD 209)

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

Information about Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts with TBN
<300 (EC 939-603-7):
Bioconcentration factor (BCF): 70,8

Information about Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
(CAS 68411-46-1):
Bioconcentration factor (BCF): 1.730

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

None

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 12 01 21 = spent grinding bodies and grinding materials other than those mentioned in 12 01 20

Recommendation: Do not dispose of with household waste.
Do not allow to enter into ground-water, surface water or drains.

Package

Waste key number: 15 01 06 = mixed packaging

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

Section 14. Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:
Not restricted

14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:
not applicable

14.5 Environmental hazards

Dangerous for the environment:
Substance/mixture is not environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Maritime transport in bulk according to IMO instruments

No dangerous good in sense of these transport regulations.

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SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 11 = Combustible solids that cannot be assigned to any of the above storage classes

Water Hazard Class: 1 = slightly hazardous to water

Information on working limitations:

5.2.3 Gesamtstaub: 12.94%

5.2.5 Klasse 1: 85,89%

Further regulations, limitations and legal requirements:

No data available

National regulations - Austria

Storage class: 11 = Combustible solids that cannot be assigned to any of the above storage classes

Further regulations, limitations and legal requirements:

No data available

National regulations - Great Britain

Hazchem-Code:

-

No data available

National regulations - EC member states

Labelling of packaging with $\leq 125\text{mL}$ content

Hazard statements: EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

No data available

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H317 = May cause an allergic skin reaction.

H361f = Suspected of damaging fertility.

EUH210 = Safety data sheet available on request.

Reason of change:

Changes in section 3: Composition / Information on ingredients

Changes in section 8: DNEL and PNEC values

Changes in section 9: Physical and chemical properties

Changes in section 11: Toxicological information

Changes in section 12: Ecological information

Changes in section 15: Technical guidance air

General revision

Date of first version: 4.3.2021

Department issuing data sheet:

see section 1: Department responsible for information

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Abbreviations and acronyms:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
AS/NZS: Australian Standards/New Zealand Standards
ATEmix: Acute Toxicity Estimate of mixture
BCF: Bioconcentration Factor
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
EU: European Union
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC50: Median lethal concentration
LD50: Lethal dose 50%
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
Repr.: Reproductive toxicity
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Sens.: Skin sensitisation
TRGS: Technical Rules for Hazardous Substances
vPvB: Very persistent and very bioaccumulative

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products.