



TRW Brake Grease

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

1.1. Product identifier

Trade name

TRW Brake Grease

Article No.

PFG110

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

Product type

Mixture.

Relevant identified uses

Grease.

Not suitable for use in

Restricted to professional users.

1.3. Details of the supplier of the safety data sheet

SDS created by

Global Division B Product Compliance Mgmt. System (BWC)

Supplier

ZF Aftermarket

Address

ZF Friedrichshafen AG
Obere Weiden 12

97424 Schweinfurt
Germany

Telephone

+49 9721 475 60

Email

msds.zf-aftermarket@zf.com

Web site

www.zf.com/contact

Contact person

Global Division B Product Compliance Mgmt. System (BWC)

Email

msds.zf-aftermarket@zf.com



TRW Brake Grease

1.4. Emergency telephone number

+49 (0)89 19240 Information in German and English

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Classification

Skin sensitisation, hazard category 1

Hazard statements

H317

Description

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.

Precautionary statements

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water/.

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

P362 + P364 Take off contaminated clothing and wash it before reuse.



SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006

Version number: 1

Issued: 2026-08-25

TRW Brake Grease

More information

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol. N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture)

2.3. Other hazards

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration $\geq 0,1\%$.



TRW Brake Grease

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentra- tion	Classification	H-phrase M factor acute M factor chronic	Specific concentra- tion limits ATE	Note
Dilithium azelate	38900-29-7 254-184-4 01-2120119814- 57-0000 -	≥1 - <10%	Acute Tox. 4 - oral	H302 - -		-
Condensation products of fatty acids, tall oil with 2-amino-2-ethyl- propanediol	- 946-010-7 01-2120770934- 44 -	≥1 - <10%	Skin Sens. 1B	H317 - -		-
N,N-bis(2-ethylhexyl)- 5-methyl-1H-benzo- triazol-1- methylamin, N,Nbis(2-ethylhexyl)- 4- methyl-1Hbenzo- triazol- 1- methylamin, 2HBenzotriazol- 2- methanamin, N,Nbis(2-ethylhexyl)-4- methyl-, 2HBenzo- triazol- 2- methanamin, N,Nbis(2-ethylhexyl)- 5- methyl-, 1HBenzo- triazol- 1- methanamin, N,Nbis(2-ethylhexyl)- 6- methyl-(Mixture)	- 939-700-4 01-2119982395- 25 -	≥0.1 - <0.25%	Skin Irrit. 2, Skin Sens. 1B, Aquatic Acute 1, Aquatic Chronic 2	H315, H317, H400, H411 M-acut=1 -		-

Product based on

polyalkylene glycol oil
special lithium soap

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.



TRW Brake Grease

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove victim to fresh air. If signs/symptoms persist, get medical attention. Keep victim warm and at rest. If breathing is irregular or stops, give artificial respiration. If unconscious, place in recovery position and seek medical advice.

Keep respiratory tract clear.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water.

Get medical attention immediately!

Wash clothing before reuse. Clean shoes thoroughly before reuse.

Eye contact

Immediately rinse with plenty of water for at least 10 minutes, also under the eyelids. If eye irritation persists, seek medical attention.

Ingestion

Move the victim to fresh air.

Do not induce vomiting without medical advice. If unconscious, place in recovery position and seek medical advice.

Keep respiratory tract clear.

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2. Most important symptoms and effects, both acute and delayed

No symptoms known or expected.

Skin contact

May cause an allergic skin reaction.

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

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Water spray.

Unsuitable extinguishing media

Do not use water jet.



TRW Brake Grease

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO).
Carbon dioxide (CO₂).
nitrogen oxides
Metal oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In case of fire, wear self-contained breathing apparatus. Use personal protective equipment. Inhalation of decomposition products can be harmful to health.

Other

Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area.
Provide adequate ventilation.
Do not breathe vapours. Avoid inhalation of aerosols.
See section 7. & 8.

6.2. Environmental precautions

Prevent material from entering drains or water courses. If large spills cannot be contained, local authorities should be notified.

6.3. Methods and material for containment and cleaning up

Collect and place in appropriately labelled containers.

6.4. Reference to other sections

For personal protection, see section 8.



TRW Brake Grease

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Avoid contact with skin and eyes.
For personal protection, see section 8.
Wash hands and face before breaks and immediately after handling the product.
Do not get in eyes, on skin, or on clothing.
Do not repack.
These safety instructions also apply to empty packaging which may still contain product residues.
Keep container closed when not in use.

General hygiene

Wash face, hands and all exposed skin thoroughly after use.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

7.3. Specific end use(s)

Not required.

Other

Storage class (TRGS 510): 11. Flammable solid.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Occupational exposure limits: No exposure limit value known.
Biological Limit Values (BLV): No exposure limit value known.

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
dilithium azelate (-/-)	DNEL	Chronic (long term) Dermal	13.5 mg/kg bw/day	Workers	Systemic
dilithium azelate (-/-)	DNEL	Chronic (long term) Dermal	0.172 mg/cm ²	Workers	Local



TRW Brake Grease

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine (-/-)	DNEL	Chronic (long term) Inhalation	49.3 mg/m ³	Workers	Systemic
bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine (-/-)	DNEL	Chronic (long term) Dermal	14 mg/kg bw/day	Workers	Systemic
Condensation products of fatty acids, tall oil with 2- amino-2- ethylpropanediol (-/-)	DNEL	Chronic (long term) Dermal	8.33 mg/kg bw/day	Workers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
dilithium azelate (-/-)	PNEC	Freshwater	0.023 mg/l
dilithium azelate (-/-)	PNEC	Marine water	0.002 mg/l

8.2. Exposure controls

Appropriate engineering controls

None.

protective measures: The type of protective equipment must be selected depending on the concentration and quantity of the hazardous substance in the workplace.

Personal Protective Equipment Symbols



Eye / face protection

Safety glasses.

Hand protection

Material: nitrile rubber.

Breakthrough time: > 10 min

Class: Protective index: 1

Wear protective gloves. For prolonged or repeated contact use protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.



TRW Brake Grease

Other skin protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection

Not required; except in case of aerosol formation.

Filter type: P

Environmental exposure controls

Air. : Not required.

Soil & Water. : The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Solid. [Paste.]

Colour

Beige.

Odour

Characteristic.

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

No data available

Flammability

Flammability (solid, gas): Combustible solids.

Lower and upper explosion limit

No data available

Flash point

Not applicable.

Auto-ignition temperature

No data available

Decomposition temperature

No data available



TRW Brake Grease

pH

Not applicable. Product is non-soluble (in water).

Kinematic viscosity

Not applicable.

Solubility

No data available

Water solubility

Insoluble in water.

Partition coefficient n-octanol/water

No data available

Vapour pressure

< 0.001 hPa (20 °C)

Density and/or relative density

0.97 g/cm³ (20 °C)

Relative density

0.97 (20 °C)

Reference substance: water

The value is calculated.

Relative vapour density

No data available

Explosive properties

Not explosive

Particle characteristics

Not applicable.

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No specific recommendations.

10.2. Chemical stability

Stable under normal use conditions.



TRW Brake Grease

10.3. Possibility of hazardous reactions

No dangerous reactions known when used as directed.

10.4. Conditions to avoid

No specific recommendations.

10.5. Incompatible materials

No materials to be especially mentioned.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

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

Mixture. ATE (Oral) : > 2000 mg/kg

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline	Remarks
Dilithium azelate -	LD50	300 mg/kg	Oral.	Rat.	OECD Test Guideline 420	-
Dilithium azelate -	LD50	> 2000 mg/kg	Dermal	Rabbit	-	The substance or mixture has no acute dermal toxicity.
Condensation products of fatty acids, tall oil with 2-amino-2-ethyl- propanediol -	LD50	> 2000 mg/kg	Oral.	Rat.	OECD Test Guideline 425	-
Condensation products of fatty acids, tall oil with 2-amino-2-ethyl- propanediol -	LD50	> 2000 mg/kg	Dermal	Rat.	OECD Test Guideline 402	-



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline	Remarks
N,N-bis(2-ethyl- hexyl)-5-methyl- 1H-benzo- triazole-1- methylamine, N,N-bis(2-ethyl- hexyl)-4-methyl- 1H-benzo- triazole-1- methylamine, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-4-methyl-, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-5-methyl-, 1H-Benzo- triazole-1-meth- anamine, N,N- bis(2-ethyl- hexyl)-6-methyl- (Mixture) -	LD50	3313 mg/kg	Oral.	Rat.	OECD Test Guideline 401	-



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline	Remarks
N,N-bis(2-ethyl- hexyl)-5-methyl- 1H-benzo- triazole-1- methylamine, N,N-bis(2-ethyl- hexyl)-4-methyl- 1H-benzo- triazole-1- methylamine, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-4-methyl-, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-5-methyl-, 1H-Benzo- triazole-1-meth- anamine, N,N- bis(2-ethyl- hexyl)-6-methyl- (Mixture) -	LD50	> 2000 mg/kg	Dermal	Rat.	OECD Test Guideline 402	-

Skin corrosion/irritation

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Dilithium azelate -	Not irritating.	-	-
Condensation products of fatty acids, tall oil with 2-amino-2- ethylpropanediol -	Not irritating.	reconstructed human epi- dermis (RhE)	-



TRW Brake Grease

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- (Mixture) -	Irritating.	Rabbit	Draize test:

Serious eye damage/irritation

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

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Dilithium azelate -	Not irritating.	Rabbit	-
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol -	Not irritating.	Rabbit	-
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- (Mixture) -	Not irritating.	Rabbit	Draize test:

Respiratory or skin sensitisation

May cause an allergic skin reaction.



TRW Brake Grease

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
Dilithium azelate -	Not sensitising.	-	-
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol -	Skin Sens. 1B;H317	-	-
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol. N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	Skin Sens. 1B;H317	Guinea Pig	OECD Test Guideline 406

Germ cell mutagenicity

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

Product / Substance name CAS / EC no.	Result	Method / Guideline	Other
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	Negative.	OECD Test Guideline 471	Ames test



TRW Brake Grease

Carcinogenicity

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

Product / Substance name CAS / EC no.	Value / Dose
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	Based on available data, the classification criteria are not met.

Repeated dose toxicity

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

N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture)
NOAEL: 45 mg/kg (Rat. Oral. 28 d. OECD Test Guideline 422)

Reproductive toxicity

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

Product / Substance name CAS / EC no.	Exposure route	Value / Dose	Species	Result	Duration of exposure	Other
Condensation products of fatty acids, tall oil with 2-amino-2-ethyl-propanediol -	-	-	-	Negative.	-	-



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Exposure route	Value / Dose	Species	Result	Duration of exposure	Other
N,N-bis(2-ethyl- hexyl)-5-methyl- 1H-benzo- triazole-1- methylamine, N,N-bis(2-ethyl- hexyl)-4-methyl- 1H-benzo- triazole-1- methylamine, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-4-methyl-, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-5-methyl-, 1H-Benzo- triazole-1-meth- anamine, N,N- bis(2-ethyl- hexyl)-6-methyl- (Mixture) -	Oral.	General Toxicity - Parent: NOAEL: 45 mg/kg body weight General Toxicity F1: NOAEL: 45 mg/kg body weight Fertility: NOAEL: 150 mg/kg body weight	Rat.	-	-	OECD Test Guideline 422



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Exposure route	Value / Dose	Species	Result	Duration of exposure	Other
N,N-bis(2-ethyl- hexyl)-5-methyl- 1H-benzo- triazole-1- methylamine, N,N-bis(2-ethyl- hexyl)-4-methyl- 1H-benzo- triazole-1- methylamine, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-4-methyl-, 2H-Benzo- triazole-2-meth- anamine, N,N- bis(2-ethyl- hexyl)-5-methyl-, 1H-Benzo- triazole-1-meth- anamine, N,N- bis(2-ethyl- hexyl)-6-methyl- (Mixture) -	Oral.	General Toxicity Maternal: NOAEL: 45 mg/kg body weight Developmental toxicity: NOAEL: 45 mg/kg body weight	Rat.	-	28 h	OECD Test Guideline 422

STOT-single exposure

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

Product / Substance name CAS / EC no.	Result
Dilithium azelate -	Not classified.
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylam- ine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methyl- amine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)- 4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethyl- hexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2- ethylhexyl)-6-methyl-(Mixture) -	Not classified.



TRW Brake Grease

STOT-repeated exposure

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

Product / Substance name CAS / EC no.	Result
Dilithium azelate -	Not classified.
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	Not classified.

Aspiration hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity

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

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Dilithium azelate -	LC50	> 100 mg/l	96 hr	Oncorhynchus mykiss	-



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
N,N-bis(2-ethyl- hexyl)-5-methyl-1H- benzotriazole-1- methylamine, N,N- bis(2-ethylhexyl)-4- methyl-1H-benzo- triazole-1-methyl- amine, 2H-Benzo- triazole-2-meth- anamine, N,N-bis(2- ethylhexyl)-4- methyl-, 2H-Benzo- triazole-2-meth- anamine, N,N-bis(2- ethylhexyl)-5- methyl-, 1H-Benzo- triazole-1-meth- anamine, N,N-bis(2- ethylhexyl)-6- methyl-(Mixture) -	LC50	1.3 mg/l	96 hr	Brachydanio rerio	OECD Test Guideline 203

Acute algae toxicity



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	EC50	0.762 mg/l	72 hr	Desmodesmus subspicatus	OECD Test Guideline 201

Acute crustacean toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Dilithium azelate -	EC50	> 100 mg/l	48 hr	Daphnia magna	-



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	EC50	2.05 mg/l	48 hr	Daphnia magna	OECD Test Guideline 202

Micro-/macro organism toxicity



TRW Brake Grease

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	EC20	15 mg/l	3 hr	Activated sludge.	OECD Test Guideline 209

Chronical toxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

No data available.

Product / Sub- stance name CAS / EC no.	Type of test	Duration	Result	Degradation	Method / Guideline
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol -	-	-	Not readily biodegradable.	-	-



TRW Brake Grease

Product / Substance name CAS / EC no.	Type of test	Duration	Result	Degradation	Method / Guideline
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	Activated sludge.	28 d	Not readily.	< 10 %	OECD Test Guideline 301B

12.3. Bioaccumulative potential

Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)
Dilithium azelate -	log Pow: -3.56	3
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol -	log Pow: 9.01	< 100
N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine, N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl-, 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl-, 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-(Mixture) -	log Pow: 7.6	1,676



TRW Brake Grease

12.4. Mobility in soil

Mobility

No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB in a concentration $\geq 0,1 \%$.

12.6. Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACH Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

The product should not be allowed to enter drains, water courses or the soil.

Do not dispose of with domestic refuse.

Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Packaging

Packaging that is not properly emptied must be disposed of as the unused product.

Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste code	Waste description
12 01 12*	spent waxes and fats
15 01 10*	packaging containing residues of or contaminated by hazardous substances

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.



TRW Brake Grease

SECTION 14: Transport information

14.1. UN number

Not regulated.

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

Not regulated.

14.3. Transport hazard class(es)

Label

Not regulated.

ADR / RID Class

Not regulated.

IMDG Class

Not regulated.

IATA Class

Not regulated.

ADN Class

Not regulated.

14.4. Packing group

Not regulated.

14.5. Environmental hazards

Not regulated.

IMDG Marine Pollutant

Not regulated.

14.6. Special precautions for user

Not regulated.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



TRW Brake Grease

SECTION 15: Regulatory information

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

EU regulations

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

Substances of very high concern (SVHC): This product does not contain any substances of very high concern (REACH Regulation (EC) No. 1907/2006, Article 57).

Ozone depleting substances (1005/2009/EU): Not applicable.

Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: Not applicable.

Regulation (EC) No. 649/2012 Import and export of dangerous chemicals: Not applicable.

Annex XIV - List of substances subject to authorization: Not applicable.

REGULATION (EU) 2019/1148 on the marketing and use of explosives precursors: Not applicable.

DIRECTIVE 2012/18/EU (SEVESO III) on the control of major-accident hazards involving dangerous substances: Not applicable.

Volatile organic compounds: Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control): 2.03 %

National regulations

UK REACH List of restrictions (Annex 17): Not applicable.

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation (UK SVHC): This product does not contain substances of very high concern (UK: The REACH etc. (Amendment) Regulations, Article 57).

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) (GB POPs): Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer (EC 2024/590): Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) (UK. REACH Annex XIV): Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation (GB PIC): Not applicable

The Control of Explosives Precursors and Poisons Regulations (Poisons Act, as amended) (GB Poisons Act): Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH): Not applicable

Other regulations, limitations and legal regulations

Observe employment restrictions in accordance with Directive 94/33/EC on the protection of young workers or stricter national provisions, where applicable.

15.2. Chemical safety assessment

Not available.



TRW Brake Grease

SECTION 16: Other information

Phrase meaning

Skin Sens. 1 - Skin sensitisation, hazard category 1
Skin Irrit. 2 - Skin irritation, hazard category 2
Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 2 - Hazardous to the aquatic environment — Chronic hazard category 2
Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Other

Additional information

Disclaimer : The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.