

According to Regulation (EC) No 1907/2006

Transmission Oil, Dual clutch

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

1.1. Product identifier

Trade name

Transmission Oil, Dual clutch

Article No.

34-028

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

Relevant identified uses

Gear oil

1.3. Details of the supplier of the safety data sheet

Supplier

BILTEMA SWEDEN AB

Street address

Garnisonsgatan 26, 2nd FL

SE-254 66 Helsingborg

Sweden

Telephone

+46 77 520 00 00

Email

kundservice@biltema.com

Web site

www.biltema.se

1.4. Emergency telephone number

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

2.2. Label elements

Hazard statements

2.3. Other hazards

No data available

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7 265-174-4 01-2119487080-42 649-477-00-2	≥50 - <100%	-	- - -	-
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7 265-157-1 01-2119484627-25 649-467-00-8	≥10 - <25%	Asp. Tox. 1	H304 - -	-
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic)	- 701-204-9 01-2119960832-33 -	≥1 - <2.5%	Skin Irrit. 2	H315 - -	-
bis(nonylphenyl)amine	36878-20-3 253-249-4 01-2119488911-28 -	≥1 - <2.5%	Aquatic Chronic 4	H413 - -	-
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol	91648-65-6 293-927-7 - -	≥1 - <2.5%	Aquatic Chronic 3	H412 - -	-
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol	1218787-32-6 620-540-6 - -	≥0.25 - <1%	Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2, Acute Tox. 4 - oral	H302, H314, H318, H400, H410 M-acut=10 M-chro=1	-
C14-18 alpha-olefin epoxide, reaction products with boric acid	- 939-580-3 01-2119976364-28 -	≥0.1 - <1%	Skin Sens. 1B	H317 - -	-
2-Ethylhexyl methacrylate	688-84-6 211-708-6 - -	≥0.1 - <1%	STOT SE 3, Aquatic Chronic 3, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1B	H315, H317, H319, H335, H412 - -	STOT SE 3 H335 ≥ 10 %

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16. DMSO<3% (IP 346)

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SECTION 4: First aid measures

4.1. Description of first aid measures

If symptoms persist, call a physician.

First aider needs to protect himself.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention.

Skin contact

In case of skin contact, rinse immediately with warm water.

In case of prolonged skin irritation, consult a doctor.

Eye contact

Immediately flush eyes for at least 15 minutes. Get medical attention.

Ingestion

Patients who are unconscious or dizzy should be placed in a supine position. /*N only*/If swallowed, do not induce vomiting - seek medical advice. No known symptoms so far.

Information for doctors

Aspiration hazard if swallowed - can enter lungs and cause damage.

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

No known symptoms so far.

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

Do NOT use water jet.

5.2. Special hazards arising from the substance or mixture

Heating can release hazardous gases.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

In the event of fire, wear self contained breathing apparatus.

Other

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Observe the risk of slipping in the event of leakage / spillage. Wear personal protective equipment. Provide good ventilation. Keep away from heat and sources of ignition. Breathing apparatus needed only when aerosol or mist is formed. Avoid contact with the skin and the eyes.

6.2. Environmental precautions

The product should not be allowed to enter drains, water courses or the soil. Prevent spreading over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Usage of Absorbent material, organic.

6.4. Reference to other sections

See section 7 and 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

No special precautions are needed in handling this material.

Fire class B

7.2. Conditions for safe storage, including any incompatibilities

Keep in suitable and closed containers for disposal. Keep away from food and drink. Keep tightly closed. Store dry and cool. To maintain product quality, do not store in heat or direct sunlight.

7.3. Specific end use(s)

Gear oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No data available

8.2. Exposure controls

Appropriate engineering controls

However the usual precautions used for chemical products should be respected.

Eye / face protection

Wear eye/face protection.

Hand protection

Neoprene

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Other skin protection

Use protective clothing.

Respiratory protection

Respiratory protection is not normally required. Do not inhale fumes. Apply technical measures to comply with the occupational exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

Red

Odour

No data available

Melting point / freezing point

No data available

Boiling point or initial boiling point and boiling range

-49 °C

Method

ASTM D 97-66

Flammability

No data available

Lower and upper explosion limit

No data available

Flash point

221 °C

Method

ASTM D 92

Auto-ignition temperature

Not applicable

Decomposition temperature

No data available

pH

Not applicable

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Kinematic viscosity

 42,2 mm²/s @40 °C

Method

ASTM D 445

Solubility

No data available

Partition coefficient n-octanol/water

No data available

Vapour pressure

No data available

Density and/or relative density

 0,8483 g/cm³ @ 15 °C

Method

ASTM D 4052

Relative vapour density

No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

None under normal use.

10.2. Chemical stability

None under normal use.

10.3. Possibility of hazardous reactions

oxidising substances

10.4. Conditions to avoid

None under normal use.

10.5. Incompatible materials

strong acids and oxidizing agents

10.6. Hazardous decomposition products

No

Other

See section 2

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SECTION 11: Toxicological information

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

Acute toxicity

the classification criteria are not met

Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Duration of exposure	Test animals	Method / Guideline
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	LD50	5,53 mg/l	Inhalation	4h	rat	-
bis(nonylphenyl) amine 36878-20-3 / 253-249-4	LD50	> 5000 mg/kg	Oral	-	rat	OECD 401
bis(nonylphenyl) amine 36878-20-3 / 253-249-4	LD50	> 2000 mg/kg	LD50 Dermal	-	rat	OECD 402
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	LD50	>5000 mg/kg	Oral	-	rat	-
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	LD50	>5000 mg/kg	Dermal	-	rabbit	-

Skin corrosion/irritation

the classification criteria are not met

Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
bis(nonylphenyl)amine 36878-20-3 / 253-249-4	not irritating	rabbit	OECD 404

Serious eye damage/irritation

the classification criteria are not met

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Product / Substance name CAS / EC no.	Result	Species	Method / Guideline
bis(nonylphenyl)amine 36878-20-3 / 253-249-4	not irritating	rabbit eye	OECD 405

Irritation

the classification criteria are not met

Respiratory or skin sensitisation

the classification criteria are not met

Germ cell mutagenicity

No data available

Genotoxicity

the classification criteria are not met

Mutagenicity

the classification criteria are not met

Carcinogenicity

the classification criteria are not met

Reproductive toxicity

No data available

STOT-single exposure

the classification criteria are not met

STOT-repeated exposure

the classification criteria are not met

Aspiration hazard

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Reaction products	LC50	> 1000 mg/l	96h	Pimephales	-

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
of fatty acids, C14- C18 (branched and linear) and C18 (unsaturated) with tetraethylenepenta mine (linear, branched, cyclic) / 701-204-9				promelas (fathead minnow)	
C14-18 alpha-olefin epoxide, reaction products with boric acid / 939-580-3	LC50	> 100 mg/l	96h	Rainbow trout	-
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol 1218787-32-6 / 620- 540-6	LC50	0,1 mg/l	96h	Brachydanio rerio (zebra fish)	-
2-Ethylhexyl methacrylate 688-84-6 / 211-708- 6	LC50	2,78 mg/l	96h	Aphyosemion bivittatum	-
bis(nonylphenyl)ami ne 36878-20-3 / 253- 249-4	LC50	> 100 mg/l	96h	Brachydanio rerio (zebra fish)	OECD 203
1,3,4- Thiadiazolidine-2,5- dithione, reaction products with hydrogen peroxide and tert-nonanethiol 91648-65-6 / 293- 927-7	LC50	> 1000 g/l	96h	Pimephales promelas (fathead minnow)	-
1,3,4- Thiadiazolidine-2,5- dithione, reaction products with hydrogen peroxide and tert-nonanethiol 91648-65-6 / 293- 927-7	NOEC	1000 mg/l	4d	Pimephales promelas (fathead minnow)	-
Paraffin oils (petroleum), catalytic dewaxed heavy	LL50	>100 mg/l	96h	Pimephales promelas (fathead minnow)	-

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
64742-70-7 / 265-174-4					

Acute algae toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) / 701-204-9	EC50	94 mg/l	96 h	-	-
C14-18 alpha-olefin epoxide, reaction products with boric acid / 939-580-3	EC50	> 100 mg/l	72h	Selenastrum capricornutum	-
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol / 1218787-32-6 / 620-540-6	EC50	0,0538 mg/l	72h	Pseudokirchneriella subcapitata	-
2-Ethylhexyl methacrylate / 688-84-6 / 211-708-6	EC50	7,68 mg/l	72h	-	-
bis(nonylphenyl)amine / 36878-20-3 / 253-249-4	EC50	> 100 mg/l	72h	Desmodesmus subspicatus	OECD 201
1,3,4-Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol / 91648-65-6 / 293-927-7	NOEC	100 mg/	96h	Selenastrum capricornutum (green algae)	-
1,3,4-	EC50	> 100 mg/	96h	Selenastrum	-

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Thiadiazolidine-2,5-dithione, reaction products with hydrogen peroxide and tert-nonanethiol 91648-65-6 / 293-927-7				capricornutum (green algae)	
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	NOEL	>100 mg/l	72h	Pseudokirchneriella subcapitata	-

Acute crustacean toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) / 701-204-9	EC50	> 1000 mg/l	48h	Daphnia magna (Water flea)	-
Reaction products of fatty acids, C14-C18 (branched and linear) and C18 (unsaturated) with tetraethylenepentamine (linear, branched, cyclic) / 701-204-9	EC50	> 32 mg/l	21 d	Daphnia magna (Water flea)	-
C14-18 alpha-olefin epoxide, reaction products with boric acid / 939-580-3	NOEC	> 100 mg/l	48h	Daphnia magna (Water flea)	-
C14-18 alpha-olefin epoxide, reaction products with boric acid / 939-580-3	NOEC	100 mg/l	48h	Daphnia magna (Water flea)	-

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
C14-18 alpha-olefin epoxide, reaction products with boric acid / 939-580-3	EC50	20 mg/l	21d	Daphnia magna (Water flea)	-
C14-18 alpha-olefin epoxide, reaction products with boric acid / 939-580-3	NOEC	10 mg/l	21d	Daphnia magna (Water flea)	-
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol 1218787-32-6 / 620- 540-6	EC50	0,043 mg/l	48h	Daphnia magna (Water flea)	-
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol 1218787-32-6 / 620- 540-6	EC10	0,0107 mg/l	21d	Daphnia magna (Water flea)	-
2-Ethylhexyl methacrylate 688-84-6 / 211-708- 6	EC50	> 2,18 mg/l	48h	Daphnia magna (Water flea)	-
2-Ethylhexyl methacrylate 688-84-6 / 211-708- 6	EC50	0,105 mg/l	21d	Daphnia	-
bis(nonylphenyl)ami ne 36878-20-3 / 253- 249-4	EC50	> 100 mg/l	48h	Daphnia magna (Water flea)	OECD 202
1,3,4- Thiadiazolidine-2,5- dithione, reaction products with hydrogen peroxide and tert-nonanethiol 91648-65-6 / 293- 927-7	NOEC	32 mg/l	48h	Daphnia magna (Water flea)	-
1,3,4- Thiadiazolidine-2,5- dithione, reaction products with	EC50	41 mg/l	48h	Daphnia magna (Water flea)	-

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Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
hydrogen peroxide and tert-nonanethiol 91648-65-6 / 293-927-7					
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	EL50	>10000 mg/l	48h	Daphnia magna (Water flea)	-
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	LL50	>10000 mg/l	96h	Daphnia magna (Water flea)	-
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	NOEL	>10000 mg/l	96h	Daphnia magna (Water flea)	-
Paraffin oils (petroleum), catalytic dewaxed heavy 64742-70-7 / 265-174-4	NOEL	10 mg/l	21d	Daphnia magna (Water flea)	-

Micro-/macro organism toxicity

Product / Substance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure
2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol 1218787-32-6 / 620-540-6	EC50	167 mg/l	3h

12.2. Persistence and degradability**Persistence and degradability**

Not readily biodegradable (.? % after .? days).

Product / Substance name CAS / EC no.	Duration	Result	Degradation
2-Ethylhexyl methacrylate	28d	88%	-

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Product / Substance name CAS / EC no.	Duration	Result	Degradation
688-84-6 / 211-708-6			
bis(nonylphenyl)amine 36878-20-3 / 253-249-4	28d	1 %	Not inherently biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

Product / Substance name CAS / EC no.	LogKow / LogPow	Bioconcentration factor (BCF)
2-Ethylhexyl methacrylate 688-84-6 / 211-708-6	log Pow 4,95	37
bis(nonylphenyl)amine 36878-20-3 / 253-249-4	log Pow > 7,6	-

12.4. Mobility in soil

Mobility

not determined

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

not determined

12.6. Endocrine disrupting properties

not determined

12.7. Other adverse effects

No data available

Other

The product itself has not been tested. The following toxicological data shown are those obtained from tests on products of similar composition (in accordance with (national equivalent of Article 3(4) of EC-Directive 88/379)).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Dispose of contents/container according to local regulations.

Packaging

packaging containing residues of or contaminated by hazardous substances

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Waste code	Description
13 02 08*	other engine, gear and lubricating oils
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.

SECTION 14: Transport information

- 14.1. UN number
No data available
- 14.2. UN proper shipping name
No data available
- 14.3. Transport hazard class(es)
No data available
- 14.4. Packing group
No data available
- 14.5. Environmental hazards
No data available
- 14.6. Special precautions for user
See section 6-8
- 14.7. Maritime transport in bulk according to IMO instruments
No data available

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulations
EU Regulation (EC) No. 1907/2006 (REACH) CLP - Regulation (EC) No 1272/2008
- 15.2. Chemical safety assessment
None Chemical safety assessment

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Transmission Oil, Dual clutch**SECTION 16: Other information****Phrase meaning**

Skin Irrit. 2 - Skin irritation, hazard category 2

Skin Sens. 1B - Skin sensitisation, hazard category 1, sub-category 1B

Skin Corr. 1C - Skin corrosion, hazard category 1C

Eye Dam. 1 - Serious eye damage, hazard category 1

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

STOT SE 3 - Specific Target Organ Toxicity — Single exposure, hazard category 3

Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3

Eye Irrit. 2 - Eye irritation, hazard category 2

Aquatic Chronic 4 - Hazardous to the aquatic environment — Chronic hazard category 4

Asp. Tox. 1 - Aspiration hazard, hazard category 1

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.