Safety Data Sheet

according to Regulation (EC) No 1907/2006

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

1.1. Product identifier

GEAR FLUIDE 14 BM

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

Use of the substance/mixture

ATF (Automatic Transmission Fluid)

1.3. Details of the supplier of the safety data sheet

Company name:	Eurolub GmbH	
Street:	Freisingerstraße 25-27	
Place:	D-85386 Eching b. München	
Telephone:	+49 (0)8165 9591-0	Telefax: +49 (0)8165 9591-20
e-mail:	info@eurolub.com	
Internet:	www.eurolub.com	
Responsible Department:	Kundenservice	

1.4. Emergency telephone number:

Giftnotruf Mainz (DE; E) +49 (0)6131-19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard statements

H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P103	Read label before use.
P273	Avoid release to the environment.
P501	Dispose of contents/container to of the disposal according to local regulations.

Special labelling of certain mixtures

EUH208	Contains 4,4`-Thiodiethylenhydrogen-2-octadecenylsuccinate. May produce an allergic reaction.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based			60 - <= 100 %
	276-738-4	649-483-00-5	01-2119474889-13	
	Asp. Tox. 1; H304			
36878-20-3	Bis(nonylphenyl)amine			1- <2 %
	253-249-4		01-2119488911-28	
	Aquatic Chronic 4; H413			
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate			1 - < 2.5 %
	406-040-9	607-530-00-7	01-2119830067-43	
	Aquatic Chronic 4; H413			
	Reaction product of alkylthioalcohol and substituted phosphorus compound			<0,5 %
	424-820-7		01-0000017126-75	
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1, Aquatic Chronic 1; H312 H314 H400 H410			
93882-40-7	4,4`-Thiodiethylenhydrogen-2-octadecenylsuccinate			<0,2 %
	299-434-3			
	Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H319 H317 H411			

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

Further Information

According to EC directives or the corresponding national regulations the product does not have to be labelled.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider

Change contaminated clothing.
Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

In case of inhalation of aerosols/spray mist/splash spots: Consult physician. Provide fresh air.
Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.
If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.
In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

4.3. Indication of any immediate medical attention and special treatment needed

Caution if victim vomits: Risk of aspiration!
Aspiration hazard: Call a physician immediately.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.
Carbon dioxide (CO2). Dry extinguishing powder. Foam.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance itself, combustion products, resulting gases:
Carbon dioxide (CO2). Carbon monoxide Sulphur oxides. Phosphorus oxides. Hydrogen sulphide (H2S).

5.3. Advice for firefighters

carbon black In case of fire: Wear self-contained breathing apparatus.
In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Dispose of waste according to applicable legislation.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Special danger of slipping by leaking/spilling product.
Wear suitable protective clothing.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Protect skin by using skin protective cream. Wash hands before breaks and after work.
Conditions to avoid: aerosol or mist generation.

Advice on protection against fire and explosion

No special measures are necessary.
When using do not smoke.
Fire class: B (DIN-/EN-Norms: EN2)

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
Keep away from heat. Keep/Store only in original container.

Hints on joint storage

Do not store together with:Food and fodder, Oxidizing agents.

Further information on storage conditions

If product enters soil, it will be mobile and may contaminate groundwater. Keep away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
36878-20-3	Bis(nonylphenyl)amine			
Consumer DNEL, long-term		inhalation	systemic	1,09 mg/m³
Consumer DNEL, long-term		dermal	systemic	0,31 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,31 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	4,37 mg/m³
Worker DNEL, long-term		dermal	systemic	0,62 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
36878-20-3	Bis(nonylphenyl)amine	
Micro-organisms in sewage treatment plants (STP)		1 mg/l
Soil		263000 mg/kg
Marine sediment		13200 mg/kg
Freshwater sediment		132000 mg/kg
Marine water		0,01 mg/l
Freshwater		0,1 mg/l

8.2. Exposure controls

Protective and hygiene measures

When using do not eat, drink or smoke.
Change contaminated clothing.
Wash hands before breaks and after work.
Protect skin by using skin protective cream.
Keep away from food, drink and animal feedingstuffs.
Do not breathe vapour.

Eye/face protection

In fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

Hand protection

Wear suitable gloves.

Skin protection

In fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	red violet
Odour:	characteristic

		Test method
pH-Value:	not applicable	DIN 51369
Changes in the physical state		
Pour point:		ISO 3016
Pourpoint::	~-42 °C	DIN ISO 3016
Flash point:	>170 °C	ISO 2592
Ignition temperature:	No data available	
Vapour pressure: (at 20 °C)	<0,1 hPa	calculated.
Density (at 15 °C):	~0,843 g/cm³	DIN 51757
Water solubility: (at 20 °C)	practically insoluble	

Solubility in other solvents

Soluble in hydrocarbons (mineral oil.)

Viscosity / kinematic: (at 40 °C)	~32 mm²/s	DIN 51562
Solvent separation test:	No data available	
Solvent content:	none Solvents	

9.2. Other information

Solid content:	0

none

SECTION 10: Stability and reactivity

10.1. Reactivity

This product is stable under normal conditions. Hazardous reactions are unlikely.

10.2. Chemical stability

No thermal decomposition if properly stored / handled /transported.
Onset of decomposition at elevated temperatures (>100°C)

10.3. Possibility of hazardous reactions

possible with strong oxidizing agents.
This product is stable under normal conditions. Hazardous reactions are unlikely.

10.4. Conditions to avoid

Oxidizing agents, strong.

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

none

Further information

No thermal decomposition if properly stored / handled /transported.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

No data available.

Irritant effect on the respiratory tract: Do not breathe gas/vapour.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
36878-20-3	Bis(nonylphenyl)amine				
	oral	LD50 >5000 mg/kg	Rat	OECD 401	
	dermal	LD50 >2000 mg/kg	Rabbit	OECD 402	
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate				
	oral	LD50 >2000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
	Reaction product of alkylthioalcohol and substituted phosphorus compound				
	oral	LD50 >2000 mg/kg			
	dermal	ATE 1100 mg/kg			

Irritation and corrosivity

Irritant effect on the skin: none

Frequent and prolonged eye contact may cause eye irritation.

Sensitising effects

Due to the very low concentration of sensitizing substances, the finished product can be assumed not to be skin-sensitizing.

Carcinogenic/mutagenic/toxic effects for reproduction

The product is not classified.

STOT-repeated exposure

Frequently or prolonged contact with skin may cause dermal irritation.

Specific effects in experiment on an animal

No data available.

Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

Practical experience

Observations relevant to classification

Has de-greasing effect on the skin.

Other observations

No special hazards known when the product is properly used and the precautionary measures indicated are observed.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based						
	Acute fish toxicity	LC50 mg/l	> 100	96 h		OECD 203	
	Acute algae toxicity	ErC50 mg/l	>= 100	72 h		OECD 201	
	Acute crustacea toxicity	EC50 mg/l	> 10 000	48 h		OECD 202	
36878-20-3	Bis(nonylphenyl)amine						
	Acute fish toxicity	LC50 mg/l	>100	96 h	Brachydanio rerio (zebra-fish)	OECD 203	
	Acute algae toxicity	ErC50	600 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna	OECD 202	
125643-61-0	reaction mass of isomers of: C7-9-alkyl 3-(3,5-di-trans-butyl-4-hydroxyphenyl)propionate						
	Acute fish toxicity	LC50	>74 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Reaction product of alkylthioalcohol and substituted phosphorus compound						
	Acute fish toxicity	LC50	1,5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	OECD 203	
	Acute algae toxicity	ErC50 mg/l	0,31	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	0,09	48 h	Daphnia magna	OECD 202	
	Crustacea toxicity	NOEC mg/l	0,14	21 d	Daphnia magna		

12.2. Persistence and degradability

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants. Poorly eliminated from water.
Not easily bio-degradable (according to OECD-criteria). Product is partially biodegradable. Significant residues remain.
Post-use oils must not be discharged into the sewer system or into surface waters nor must they be allowed to enter the soil.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
36878-20-3	Bis(nonylphenyl)amine			
	Aerobic biological treatment	1%	28	
	Not easily bio-degradable (according to OECD-criteria).			

12.3. Bioaccumulative potential

No data available.
Do not allow uncontrolled discharge of product into the environment.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	> 6
36878-20-3	Bis(nonylphenyl)amine	>7,6

12.4. Mobility in soil

No data available.

12.6. Other adverse effects

Aquatic organisms: No data available.
Effects in sewage plants No data available.
No data available.

Further information

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

The waste codes stated are recommendations based on the expected use of the substance and may be re-assigned to other waste codes by the user, if applicable.
Dispose of waste according to applicable legislation.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

Waste disposal number of waste from residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Waste disposal number of used product

130205 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Waste disposal number of contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Dispose of this material and its container to hazardous or special waste collection point. Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	ATF
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Other applicable information (land transport)

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	ATF
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Other applicable information (inland waterways transport)

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: ATF

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Other applicable information (marine transport)

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name: ATF

14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.

14.4. Packing group: No dangerous good in sense of this transport regulation.

Other applicable information (air transport)

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

According to EC directives or the corresponding national regulations the product does not have to be labelled.

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,11.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	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.
EUH208	Contains 4,4`-Thiodiethylenhydrogen-2-octadecenylsuccinate. May produce an allergic reaction.

Further Information

The above data are intended to describe our product in terms of any safety requirements to be observed. They reflect the state of our current knowledge and experience and shall not be construed as warranted characteristics. Any warranty for accuracy and completeness shall be expressly excluded.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)