Section 1. Identification of the substance/mixture and of the company/undertaking.

1.1 Product identifier: AUTOL Getriebeöl LS

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

Use of the substance/mixture: Gear oil

1.3 Details of the suppler of the Safety Data Sheet: Eni Schmiertechnik GmbH
Paradiesstr. 14, 97080 Würzburg
Tel. (+ 49) 931 - 900 98-0 Fax (+ 49) 931-98442

Advising/Support: Technical Department, Tel. (+49) 931 900 98-145
technik.wuerzburg@agip.de
www.enischmiertechnik-datenblaetter.de

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: P273: Avoid release to the environment
P501: Dispose of contents/container to the disposal according to local regulations

Special labelling of certain mixtures: Contains Ethanol, 2-butoxy-, production of, by-product of.
May produce an allergic reaction.

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]			
	Long-chain alkyl amine			< 1%
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H330 – H311 – H302 – H314 – H317 – H400 – H410			
115-86-6	Triphenyl phosphate (>5%)			< 1%
	204-112-2		01-2119457432-41	
	Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H400 – H411			

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

Section 4. First aid measures.

4.1 Description of first aid measures:

General information: Self-protection of the first helper. Change contaminated clothing. Do not put any product impregnated cleaning rags into your trouser pockets.

After inhalation: Provide fresh air.

After contact with skin: Wash with plenty of water and soap. Change contaminated clothing.

After contact with eyes: Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion: Rinse mouth immediately and drink large quantities of water.

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: Caution if victim vomits: Risk of aspiration.
Aspiration hazard: Immediately get medical attention.

Section 5. Fire fighting measures.

5.1 Extinguishing media:

Suitable extinguishing agents:	Coordinate fire-fighting measures to the fire surroundings. Carbon dioxide CO_2, dry extinguishing powder, foam.
Unsuitable extinguishing media:	High power water jet.
5.2 Special hazards arising from the substance or mixture:	The product itself does not burn.
5.3 Advice for fire fighters:	Wear self-contained breathing apparatus.
Additional information:	Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Section 6. Accidental release measures.

6.1 Personal precautions, protective equipment and emergency procedures:	Provide adequate ventilation.
6.2 Environmental precautions:	Do not allow to enter into surface water or drains.
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 according to the section on waste disposal.
6.4 Reference to other sections:	In case of gas escape or 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 at the end of work. Conditions to avoid: Aerosol or mist generation.
Advice on protection against fire and explosion:	No special measures are necessary.

7.2 Conditions for safe storage, including any incompatibilities:

Requirements for storage rooms and vessels:	Keep container tightly closed.
Advice on storage compatibility:	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.
7.3 Specific end use(s):	Gear oil

Section 8. Exposure controls/personal protection.

8.1 Control parameters:

Exposure limits (EH40):

CAS No.	Substance	ppm	mg/m³	fibres/ml	Category	Origin
115-86-6	Triphenyl phosphate	--	3		TWA (8 H)	WEL
		--	6		STEL (15 min.)	WEL

8.2 Exposure controls:

Protective and hygiene measures:	Change contaminated clothing. Wash hands before breaks and at the end of work. When using do not eat or drink.
Eye/face protection:	In fine dispersion/spraying/misting: 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 vapour, dust and aerosols.

Section 9. Physical and chemical properties.

9.1 Information on basic physical and chemical properties:

Physical state:	Liquid
Colour:	Brown
Odour:	Characteristic
pH value:	Not applicable (DIN 51369)
Changes in the physical state:	
Pourpoint:	-21°C (DIN ISO 3016)
Flashpoint:	> 190°C (ISO 2592)
Ignition temperature:	No data available
Vapour pressure (at 20°C):	< 0,1 hPa (Calculated)
Density at 15°C:	~ 0,90 g/cm³ (DIN 51757)
Water solubility (at 20°C):	Practically insoluble
Solubility in other solvents:	Soluble in hydrocarbons (mineral oil)
Kin. Viscosity at 100°C:	~ 15,3 mm²/s (DIN 51562)
Solvent separation test:	No data available
Solvent content:	No solvents
9.2 Other information:	
Solid content:	0 - None

Section 10. Stability and reactivity.

10.1 Reactivity:	No data available
10.2 Chemical stability:	No thermal decomposition if properly stored/handled/transported. Onset of decomposition at elevated temperatures (> 65°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:	No data available.
10.5 Incompatible materials:	Oxidizing agents, strong.
10.6 Hazardous decomposition products:	None
Further information:	No thermal decomposition if properly stored/handled/transported. Onset of decomposition at elevated temperatures(> 120°C).

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 routes	Dose	Species	Source
	Long-chain alkyl amine			
	Oral	LD50 > 500 mg/kg	Rat	
	Dermal	LD50 201 – 1000 mg/kg	Rabbit	
	Inhalative vapour	ATE 0,5 mg/l		
	Inhalative aerosol	ATE 0,5 mg/l		
115-86-6	Triphenyl phosphate (>5%)			
	Oral	LD50 > 20000 mg/kg	Rat	
	Dermal	LD50 > 10000 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	Method	Dose	[h] [d]	Species	Source
115-86-6	Triphenyl phosphate (>5%)					
	Acute fish toxicity	LC50	0,5 mg/l	96 h		

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 biodegradable (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.
12.3 Bioaccumulative potential:	No data available. Do not allow uncontrolled discharge of product into the environment.
12.4 Mobility in soil:	No data available.
12.5 Results of PBT and vPvB assessment:	No data available.
12.6 Other adverse effects:	Aquatic organisms: No data available. Effects in sewage plants: No data available.
Further information:	Do not allow to enter into surface water 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 allow to enter drains. Dispose of waste according to applicable legislation.
Waste disposal number of waste from residues/unused products:	13 02 06 – Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils. Classified as hazardous waste.
Waste disposal number of used products:	13 02 06 – Oil wastes and wastes of liquid fuels (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; synthetic engine, gear and lubricating oils. Classified as hazardous waste.
Waste disposal number of contaminated packaging:	15 01 10 – 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 dangerous substances. Classified as hazardous waste.
Contaminated packaging:	Non-contaminated packages may be recycled. Handle contaminated packaging in the same way as the substance itself.

Section 14. Transport information.

Land transport (ADR/RID):	
Other applicable information (land transport):	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN):	
Other applicable information (inland waterways transport):	No dangerous good in sense of this transport regulation.
Marine transport (IMDG):	
Other applicable information (marine transport):	No dangerous good in sense of this transport regulation.
Air transport (ICAO):	
Other applicable information (air transport):	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:

National regulatory information:

Water hazardous class (WGK) (D): 2 – hazardous for water

16. Other information.

The information contained in this safety data sheet is based on our current information level. It does not give assurance for certain product properties and does not establish a contractual relationship. This information relates only to the specific material and may not be valid if the material is used in combination with any other material or in any process.

Relevant H- and EUH-statements (number and full text):

H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
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
EUH208	Contains Long-chain alkyl amine. May produce an allergic reaction

Changes in section: 2, 3, 11, 12, 15, 16