

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision: 04.06.2008 Replaces the version of: 07.05.2008 PDF date: 06.06.2008
OUTBOARD MOTOROIL 5L Art.: 1234

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

OUTBOARD MOTOROIL 5L

Art.: 1234

Use of the substance/preparation

Two-stroke motor oil

Company/undertaking identification

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr
Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:

Telephone number of the company in case of emergencies:

Tel. (+49) 0731-1420-0

2. HAZARDS IDENTIFICATION

To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

To the environment

See point 12.

Product can compose a film on the water surface, which can prevent oxygen exchange.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name			
content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)	DNEL	PNEC
Distillates (petroleum), hydrotreated light			
15 - 25	Xn	65-66	265-149-8

For complete wording of the R-phrases, refer to point 16.

4. FIRST AID MEASURES

4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

Remove person from danger area.

4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Keep Data Sheet available.

4.3 Skin contact

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision: 04.06.2008 Replaces the version of: 07.05.2008 PDF date: 06.06.2008
OUTBOARD MOTOR OIL 5L Art.: 1234

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Do not induce vomiting. Consult doctor immediately.
Danger of aspiration.

4.5 Special resources necessary for first aid

n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

CO₂
Foam
Dry extinguisher

5.2 Extinguishing media which shall not be used for safety reasons

High volume water jet

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon
Oxides of nitrogen
Flammable vapour/air mixtures.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply
According to size of fire
Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Avoid inhalation, and contact with eyes or skin.
If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.
Prevent from entering drainage system.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1
Observe directions on label and instructions for use.
General hygiene measures for the handling of chemicals are applicable.
Take measures against electrostatic charging, if appropriate.
If applicable:
Use explosion-proof equipment.

7.2. Storage

Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.

Special storage conditions:

See point 10
Protect against moisture and store closed.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision: 04.06.2008 Replaces the version of: 07.05.2008 PDF date: 06.06.2008
OUTBOARD MOTOR OIL 5L Art.: 1234

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

Chemical Name	Distillates (petroleum), hydrotreated light	Content %: 15 - 25
WEL-TWA: 1200 mg/m ³ (normal and branched chain >= C7) (WEL), 600 mg/m ³ (AGW)	WEL-STEL: 2(II) (AGW)	---
BMGV: ---	Other information: ---	
Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m ³ (ACGIH)	WEL-STEL: 10 mg/m ³ (ACGIH)	---
BMGV: ---	Other information: ---	
Chemical Name	Baseoil - unspecified	Content %:
WEL-TWA: 300 mg/m ³ (AGW)	WEL-STEL: 2(II) (AGW)	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Respiratory protection:

Filter A - P2 EN 141

Hand protection:

Protective hand cream recommended.

Eye protection:

Skin protection:

If OES or MEL is exceeded.

Protective nitrile gloves (EN 374)

Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Colour:

Odour:

10 % pH-value:

Boiling point/boiling range (°C):

Liquid

Brown

Characteristic

n.av.

n.av.

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision: 04.06.2008 Replaces the version of: 07.05.2008 PDF date: 06.06.2008
OUTBOARD MOTOR OIL 5L Art.: 1234

Melting point/melting range (°C):	- 15
Flash point (°C):	110
Autoflammability:	n.c.
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	n.c.
Density (g/ml):	0,875
Water solubility:	Insoluble
Viscosity:	52 mm ² /s/40°C, 8,7 mm ² /s/100°C

10. STABILITY AND REACTIVITY

Conditions to avoid

See point 7
Protect from humidity.
Open flame, ignition sources

Materials to avoid

See point 7
Avoid contact with strong oxidizing agents.
Avoid contact with other chemicals.

Hazardous decomposition products

See point 5.3

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

Further information

No classification according to calculation procedure.
The following may occur:
Drying of the skin.
Irritation of the skin.

12. ECOLOGICAL INFORMATION

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	Mechanical precipitation possible.
Aquatic toxicity:	See point 2.
Ecological toxicity:	See point 2.

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.
EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision: 04.06.2008 Replaces the version of: 07.05.2008 PDF date: 06.06.2008
OUTBOARD MOTOR OIL 5L Art.: 1234

07 06 99 wastes not otherwise specified
13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils
Recommendation:
Pay attention to local and national official regulations
E.g. dispose at suitable refuse site.
E.g. suitable incineration plant.

13.2 for contaminated packing material

See point 13.1
Pay attention to local and national official regulations
15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 04 metallic packaging

14. TRANSPORT INFORMATION

General statements

UN-Number: n.a.

Road/Rail-transport (ADR/RID)

Class/packing group: n.a.
Classification code: n.a.
LQ: n.a.

Transport by sea

IMDG-code: n.a. (class/packing group)
Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing group)

Additional information:

Non-dangerous material according to Transport Regulations.

15. REGULATORY INFORMATION

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Not applicable
Indications of danger: ---
R-phrases:

S-phrases:

Additions:
Safety data sheet available for professional user on request.
Observe restrictions: n.a.

16. OTHER INFORMATION

These details refer to the product as it is delivered.
Storage class VCI (Germany): 10
Revised points: 8
The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).
65 Harmful: may cause lung damage if swallowed.
65 Also harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked
WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40
AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)
VbF = Regulations for flammable liquids (Austria)
WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water
VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision: 04.06.2008 Replaces the version of: 07.05.2008 PDF date: 06.06.2008

OUTBOARD MOTOR OIL 5L Art.: 1234

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

Chemical Check GmbH, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, +49 1805-CHEMICAL / +49 180 52 43 642, Fax: +49 5233 94 17 90, +49 180 50 50 455

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.