

Page 1 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 29.06.2011 / 0003
Replaces revision of / Version: 19.01.2011 / 0002
Valid from: 29.06.2011
PDF print date: 04.07.2011
Leichtlauf High Tech 5W-40 60 L Art.: 3868

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

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

1.1 Product identifier

Leichtlauf High Tech 5W-40 60 L
Art.: 3868

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

Relevant identified uses of the substance or mixture:

Motor oil

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone

Advisory office in case of poisoning:

Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).

The mixture is not classified as dangerous in the terms of the directive 1999/45/EC.

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Symbols: Not applicable

Indications of danger: ---

R-phrases:

S-phrases:

Additions:

Safety data sheet available for professional user on request.

Contains

long-chained alkylated calcium aryl sulfonate

May produce an allergic reaction.

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

Revised on / Version: 29.06.2011 / 0003

Replaces revision of / Version: 19.01.2011 / 0002

Valid from: 29.06.2011

PDF print date: 04.07.2011

Leichtlauf High Tech 5W-40 60 L Art.: 3868

2.3 Other hazards

The mixture contains no vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains no PBT substance (PBT = persistent, bioaccumulative, toxic).

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

Hazardous to drinking water, on escape of even small quantities.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Phenol, 2,2'-Polythiobis[4-C8-30-alkyl derivative, over-alkaline calcium salts	
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	291-829-9
CAS	CAS 90480-91-4
content %	1-5
Symbol	---
R-phrases	53
Classification categories / Indications of danger	Dangerous for the environment
Hazard class/Hazard category	Hazard statement
Aquatic Chronic/4	H413

Polyolefin polyamine succinimide, Polyol	
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	-
CAS	CAS 147880-09-9
content %	1-<5
Symbol	---
R-phrases	53
Classification categories / Indications of danger	Dangerous for the environment
Hazard class/Hazard category	Hazard statement
Aquatic Chronic/4	H413

Zinc alkyl dithiophosphate	
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	272-028-3
CAS	CAS 68649-42-3
content %	1-<2,5
Symbol	Xi/N
R-phrases	41-51-53
Classification categories / Indications of danger	Dangerous for the environment, Irritant
Hazard class/Hazard category	Hazard statement
Eye Dam./1	H318
Aquatic Chronic/2	H411

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

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

Skin contact

Page 3 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 29.06.2011 / 0003
Replaces revision of / Version: 19.01.2011 / 0002
Valid from: 29.06.2011
PDF print date: 04.07.2011
Leichtlauf High Tech 5W-40 60 L Art.: 3868

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

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

Ingestion

Rinse the mouth thoroughly with water.

Call doctor immediately - have Data Sheet available.

4.2 Most important symptoms and effects, both acute and delayed

Irritation of the eyes

With long-term contact:

Drying of the skin.

Dermatitis (skin inflammation)

Sensitive individuals:

Allergic reaction possible.

With oil mist formation:

Irritation of the respiratory tract

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂

Foam

Dry extinguisher

Large fire:

Water jet spray / alcohol resistant foam

Cool container at risk with water.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Oxides of phosphorus

Toxic pyrolysis products.

Hot product gives off combustible vapours.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid formation of oil mist.

Remove possible causes of ignition - do not smoke.

Avoid 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.

Prevent surface and ground-water infiltration, as well as ground penetration.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Page 4 of 9
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 29.06.2011 / 0003
 Replaces revision of / Version: 19.01.2011 / 0002
 Valid from: 29.06.2011
 PDF print date: 04.07.2011
 Leichtlauf High Tech 5W-40 60 L Art.: 3868

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.
 Oil binder

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

Avoid formation of oil mist.
 Avoid contact with eyes.
 Avoid long lasting or intensive contact with skin.
 Do not heat to temperatures close to flash point.
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 Do not carry cleaning cloths soaked in product in trouser pockets.
 Observe directions on label and instructions for use.
 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.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Protect against moisture and store closed.
 Store at room temperature.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	---
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 Appropriate engineering 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.

8.2.2 Individual protection measures, such as personal protective equipment

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.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Page 5 of 9
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 29.06.2011 / 0003
 Replaces revision of / Version: 19.01.2011 / 0002
 Valid from: 29.06.2011
 PDF print date: 04.07.2011
 Leichtlauf High Tech 5W-40 60 L Art.: 3868

Protective gloves, oil resistant (EN 374)
 If applicable
 Protective nitrile gloves (EN 374)
 Protective Neopren gloves (EN 374).
 Protective PVC gloves (EN 374)
 Protective hand cream recommended.

Skin protection - Other:
 Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Respiratory protection:
 Normally not necessary.
 With oil mist formation:
 Filter A2 P2 (EN 14387), code colour brown, white
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
 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 mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
 The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	-33 °C
Initial boiling point and boiling range:	Not determined
Flash point:	236 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,855 g/ml
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	90 mm ² /s (40°C)
Viscosity:	14,7 mm ² /s (100°C)
Explosive properties:	Not determined
Oxidising properties:	Not determined

9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined

Page 6 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 29.06.2011 / 0003
Replaces revision of / Version: 19.01.2011 / 0002
Valid from: 29.06.2011
PDF print date: 04.07.2011
Leichtlauf High Tech 5W-40 60 L Art.: 3868

Surface tension: Not determined
Solvents content: Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

See also Subsection 10.4 to 10.6.

The product has not been tested.

10.2 Chemical stability

See also Subsection 10.4 to 10.6.

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.4 to 10.6.

No decomposition if used as intended.

10.4 Conditions to avoid

See also section 7.

Protect from humidity.

Open flame, ignition sources

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also Subsection 10.4 to 10.6.

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

The product was not tested.

Classification according to calculation procedure.

Leichtlauf High Tech 5W-40 60 L

Art.: 3868

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	t					n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Respiratory tract irritation:						n.d.a.
Repeated dose toxicity:						n.d.a.
Symptoms:						n.d.a.

Zinc alkyl dithiophosphate

Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:	t					drying of the skin., diarrhoea, nausea

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 29.06.2011 / 0003
Replaces revision of / Version: 19.01.2011 / 0002
Valid from: 29.06.2011
PDF print date: 04.07.2011
Leichtlauf High Tech 5W-40 60 L Art.: 3868

SECTION 12: Ecological information

The product was not tested.
Isolate as much as possible with an oil separator.

Leichtlauf High Tech 5W-40 60 L Art.: 3868

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

Phenol, 2,2'-Polythiobis[4-C8-30-alkyl derivative, over-alkaline calcium salts

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50		>1000	mg/l	(Oncorhynchus mykiss)		
Toxicity to daphnia:	EC50		>1000	mg/l	(Daphnia magna)		
Toxicity to algae:	EbC50		>1000	mg/l	(Selenastrum capricornutum)		
Toxicity to algae:	ErC50		>1000	mg/l	(Selenastrum capricornutum)		
Persistence and degradability:		28d	7,38	%			

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

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)
13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Pay attention to local and national official regulations
Implement substance recycling.
E.g. suitable incineration plant.
Observe regulations for disposal of old oil/waste.

For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

15 01 04 metallic packaging

SECTION 14: Transport information

General statements

UN number:

n.a.

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

Revised on / Version: 29.06.2011 / 0003

Replaces revision of / Version: 19.01.2011 / 0002

Valid from: 29.06.2011

PDF print date: 04.07.2011

Leichtlauf High Tech 5W-40 60 L Art.: 3868

Transport by road/by rail (ADR/RID)

UN proper shipping name:

Transport hazard class(es):

n.a.

Packing group:

n.a.

Classification code:

n.a.

LQ (ADR 2011):

n.a.

LQ (ADR 2009):

n.a.

Environmental hazards:

Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

Transport hazard class(es):

n.a.

Packing group:

n.a.

Marine Pollutant:

n.a.

Environmental hazards:

Not applicable

Transport by air (IATA)

UN proper shipping name:

Transport hazard class(es):

n.a.

Packing group:

n.a.

Environmental hazards:

Not applicable

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Non-dangerous material according to Transport Regulations.

Additional information:

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions:

Yes

15.2 Chemical safety assessment

No information available at present.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections:

3

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

53 May cause long-term adverse effects in the aquatic environment.

41 Risk of serious damage to eyes.

51 Toxic to aquatic organisms.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Aquatic Chronic-Hazardous to the aquatic environment - chronic

Eye Dam.-Serious eye damage

Legend:

n.a. = not applicable / n.v., n.av. = not available / n.g., n.c. = not checked / k.D.v., n.d.a. = no data available

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)

VOC = Volatile organic compounds

AOX = Adsorbable organic halogen compounds

Page 9 of 9
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 29.06.2011 / 0003
Replaces revision of / Version: 19.01.2011 / 0002
Valid from: 29.06.2011
PDF print date: 04.07.2011
Leichtlauf High Tech 5W-40 60 L Art.: 3868

ATE = Acute Toxicity Estimates according to Regulation (EC) 1272/2008 (CLP)

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.