

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
SYNTHOIL LONGTIME PLUS0W30 1 L
Art.: 1150

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-Wiesland-Str. 4, 89081 Ulm-Lehr, Germany
 Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schunbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number
Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:
 +49 (0) 700 / 24 112 112 (LMF)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class **Hazard category** **Hazard statement**

Aquatic Chronic 3 H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH208-Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Calcium carbonate monopolybutenylbenzenesulfonate succinate complexes. May produce an allergic reaction.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).
 The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).
 In case of skin injury by high pressure, a risk of penetration of lubricant into the skin exists.
 Product can compose a film on the water surface, which can prevent oxygen exchange.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

1-Decene, homopolymer, hydrogenated

Registration number (REACH) 01-2119486452-34-XXXX

Index

EINECS, ELINCS, NLP 500-183-1 (NLP)

CAS

68037-01-4

content %

20-40

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

Asp. Tox. 1, H304

Phosphorothioic acid, mixed O,O-bis(1,3-dimethylbutyl) and iso-Pr

esters, zinc salts

Registration number (REACH) 01-2119493626-26-XXXX

Index

EINECS, ELINCS, NLP 283-392-8

CAS

84605-29-8

content %

1-5

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

Skin Irrit. 2, H315

Eye Dam. 1, H318

Aquatic Chronic 2, H411

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

Registration number (REACH) 01-2119492616-28-XXXX

Index

EINECS, ELINCS, NLP 274-263-7

CAS

70024-69-0

content %

0.1-1

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

Skin Sens. 1B, H317

Calcium carbonate monopolybutenylbenzenesulfonate

complexes

Registration number (REACH) ---

Index

EINECS, ELINCS, NLP 685-142-7 (REACH-IT List-No.)

CAS

252315-65-8

content %

0.1-1

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

Skin Sens. 1, H317

Phenol, dodecyl-, branched, sulfonated

Registration number (REACH) 01-2119524001-62-XXXX

Index

EINECS, ELINCS, NLP 306-115-5

CAS

96152-43-1

content %

0.1-1

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

Repr. 2, H361

Aquatic Chronic 4, H413

Phenol, dodecyl-, branched

Registration number (REACH) 01-2119513207-49-XXXX

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Index	604-092-00-9
EINECS, ELINCS, NLP	310-154-3
CAS	121158-58-5
content %	0,025-0,25
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Acute 1, H400 (M=F) Aquatic Chronic 1, H410 (M=F) Skin Corr. 1C, H314 Repr. 1B, H360F Eye Dam. 1, H318

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
 The substances named in this section are given with their actual, appropriate classification!
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
 Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
 Supply person with fresh air and consult doctor according to symptoms.

Skin contact

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

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

The following may occur:

Irritation of the eyes

Drying of the skin,

Irritation of the skin,

On vapour formation:

Irritation of the respiratory tract

Ingestion:

Nausea

Malaise

gastrointestinal disturbances

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Cool container at risk with water.

Small fire:

CO₂

Foam

Dry extinguisher

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Sand
Large fire:
Water jet spray
Foam

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 sulphur

Hydrogen sulphide

Toxic gases

5.3 Advice for firefighters

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

Protective respirator with independent air supply.

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

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

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

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

Unsuitable cleaning product:

Solvent

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

7.1.1 General recommendations

Ensure good ventilation.

Avoid formation of oil mist

Avoid contact with eyes or skin.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Do not heat to temperatures close to flash point.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

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.

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7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
 Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Do not perforate, cut up or weld undecanted container.
 Protect against moisture and store closed.
 Under all circumstances prevent penetration into the soil.
 Do not store over 55°C.
 Store at room temperature.

7.3 Specific end uses(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

(38) Chemical Name	Oil mist, mineral working fluids, ACGIH	Oil mist, mineral working fluids, ACGIH	WEL-STEL: ---	Content %
WEL-TWA: 5 mg/m ³ (Mineral oil, excluding metal)				---
Monitoring procedures:	- Draeger - Oil 10/a-P (67 28 371)			
BMGV: ---	- Draeger - Oil Mist 11a (67 33 031)			
			Other information: ---	

Phosphorothioic acid, mixed O,O-bis(1,3-dimethylbutyl) and iso-Pr) esters, zinc salts

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Environment - freshwater		PNEC	0,004	mg/l	
	Environment - marine		PNEC	0,0046	mg/l	
	Environment - soil		PNEC	0,0548	mg/kg	
	Human - oral	Long term, systemic effects	DNEL	0,24	mg/kg bw/day	
Consumer	Human - dermal	Long term, local effects	DNEL	6,1	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	2,11	mg/m ³	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	12,1	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	8,31	mg/m ³	

(38) WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40, AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU, 2017/2398/EU), | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU), (9) = Respirable fraction (2017/164/EU, 2017/2398/EU), (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40, BGV = "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 repeated 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.
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

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These are specified by e.g. BS EN 14042.
 BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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

Eye/face protection:

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

Skin protection - Hand protection:
 Chemical resistant protective gloves (EN 374).

Recommended

Protective nitrile gloves (EN 374),

Protective PVC gloves (EN 374),

Minimum layer thickness in mm:

0,5

Permeation time (penetration time) in minutes:

> 240

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

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 A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

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
 Clear: Amber, Yellow
 Colour: Yellow
 Characteristic: Characteristic
 Odour: Not determined
 n_D: n.a.
 pH-value: -39 °C (ASTM D 97, Setting point)
 Melting point/freezing point: Not determined
 Initial boiling point and boiling range: 210 °C (ASTM D 92 (Cleveland, open cup))
 Flash point: Not determined
 Evaporation rate: Not determined

Other information:					Product can compose a film on the water surface, which can prevent oxygen exchange.
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1-Decene, homopolymer, hydrogenated					
Toxicity / effect	Endpoint	Time	Value	Unit	Notes
12.3. Bioaccumulative potential:	Log Kow		>6,5		measured
12.1. Toxicity to algae:	LC50	72h	> 1000	mg/l	Scenedesmus quadricauda
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	125	mg/l	Daphnia magna
12.2. Persistence and degradability:		28d	2	%	OECD 301 D (Ready Biodegradability - Closed Bottle Test)

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts					
Toxicity / effect	Endpoint	Time	Value	Unit	Notes
12.1. Toxicity to fish:	LC50	96h	4,5	mg/l	Oncorhynchus mykiss
12.1. Toxicity to daphnia:	EC50	48h	23	mg/l	Daphnia magna
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,4	mg/l	Daphnia magna
12.1. Toxicity to algae:	EL50	72h	21	mg/l	Desmodesmus subspicatus
12.2. Persistence and degradability:		28d	1,5	%	Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		0,55		Lowmeasured
Toxicity to bacteria:	IC50	3h	>10000	mg/l	activated sludge

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts					
Toxicity / effect	Endpoint	Time	Value	Unit	Notes
12.1. Toxicity to fish:	LC50	96h	>=1000	mg/l	Pimephales promelas

12.1. Toxicity to daphnia:	EC50	48h	>=1000	mg/l	U.S. EPA ECOTOX Database
12.1. Toxicity to algae:	EC50	72h	>=1000	mg/l	U.S. EPA ECOTOX Database
12.2. Persistence and degradability:			1,5-9,1	%	OECD 301 B (Ready Biodegradability - Co2 Evolution Test)
12.3. Bioaccumulative potential:	Log Kow		4,46-10,88		OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method)

Phenol, dodecyl-, branched					
Toxicity / effect	Endpoint	Time	Value	Unit	Notes
12.1. Toxicity to fish:	LC50	96h	0,14	mg/l	Organism Salmo salar
12.2. Persistence and degradability:		28d	10	%	OECD-Screening-Test

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. (2014/955/EU)
 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:
 Sewage disposal shall be discouraged.
 Pay attention to local and national official regulations.
 E.g. suitable incineration plant.

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.
 Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

General statements

14.1. UN number: n.a.

14.2. UN proper shipping name: **Transport by road/by rail (ADR/RID)**

14.3. Transport hazard class(es): n.a.

14.4. Packing group: n.a.

Classification code: n.a.

LC: n.a.

14.5. Environmental hazards: Not applicable

Tunnel restriction code: Not applicable

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

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- 14.3. Transport hazard class(es): n.a.
 14.4. Packing group: n.a.
 Marine Pollutant: n.a.
 14.5. Environmental hazards: Not applicable
- Transport by air (IATA)**
 14.2. UN proper shipping name:
 14.3. Transport hazard class(es):
 14.4. Packing group:
 14.5. Environmental hazards:

14.6. Special precautions for user

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

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

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

Observe restrictions:
 Regulation (EC) No 1907/2006, Annex XVII
 Phenol, dodecyl-, branched
 Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 0 %

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

2, 3, 8, 11, 12, 16

Revised sections:
 These details refer to the product as it is delivered.
 Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- H314 Causes severe skin burns and eye damage.
- H360F May damage fertility.
- H317 May cause an allergic skin reaction.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H361 Suspected of damaging fertility or the unborn child.
- H400 Very toxic to aquatic life with long lasting effects.
- 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
 Asp. Tox. — Aspiration hazard
 Skin Irrit. — Skin irritation
 Eye Dam. — Serious eye damage

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- Skin Sens. — Skin sensitization
 Repr. — Reproductive toxicity
 Aquatic Acute — Hazardous to the aquatic environment - acute
 Skin Corr. — Skin corrosion

Any abbreviations and acronyms used in this document:

acc. acc. to according, according to
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ASTM ASTM International (American Society for Testing and Materials)
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
 BSEF The International Bromine Council
 bw body weight
 CAS Chemical Abstracts Service
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 EC European Community
 ECHA European Chemicals Agency
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 etc. et cetera
 EU European Union
 EVAL Ethylene-vinyl alcohol copolymer
 Fax, Fax number
 gen. general
 GHS Globally Harmonized System of Classification and Labelling of Chemicals
 GWP Global warming potential
 IARC International Agency for Research on Cancer
 IATA International Air Transport Association
 IBC (Code) International Bulk Chemical (Code)
 IMDG-code International Maritime Code for Dangerous Goods
 incl. including, inclusive
 IUCLID International Uniform Chemical Information Database
 LQ Limited Quantities
 MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable
 n.av. not available
 n.c. not checked
 n.d.a. no data available
 OECD Organisation for Economic Co-operation and Development
 org. organic
 PBT persistent, bioaccumulative and toxic
 PE Polyethylene
 PNEC Predicted No Effect Concentration
 ppm parts per million
 PVC Polyvinylchloride
 REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)



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RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel Telephone
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vpvB very persistent and very bioaccumulative
wwt wet weight

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, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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