

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

届出No.	
CH <sub>2</sub> No.	242077-1

## Makita Lubricating Oil / 100ml

English

Version number: GHS 1.0

Date of compilation: 2017-04-22

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

- 1.1 Product identifier**  
 Trade name: **Makita Lubricating Oil / 100ml**  
 Registration number (REACH): not relevant (mixture)  
 Other means of identification:  
 Article number: 46154
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 Relevant identified uses: Lubricant
- 1.3 Details of the supplier of the safety data sheet**  
 OK Befestigung GmbH & Co. KG  
 Liesentorweg 19 a  
 47802 Krefeld  
 Germany  
  
 Telephone: + 49 (0) 2151 / 95 36 39  
 Telefax: + 49 (0) 2151 / 95 36 49  
 e-mail: vertrieb@okbefestigung.de  
 Website: www.okbefestigung.de
- 1.4 Emergency telephone number**  
 Emergency information service: + 49 (0) 2151 / 95 36 39  
 This number is only available during the following of-  
 fice hours: Mon-Fri 09:00 - 17:00

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture**  
 Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat-egory	Hazard class and category	Hazard state-ment
2.3	aerosols	Cat. 1	(Aerosol 1)	H222,H229

**Remarks**

For full text of H-phrases: see SECTION 16.

**Supplemental hazard information**

Code	Supplemental hazard information
EUH066	repeated exposure may cause skin dryness or cracking

- 2.2 Label elements**  
 Labelling according to Regulation (EC) No 1272/2008 (CLP)

**Signal word**                      **Danger**

Pictograms

GHS02



Hazard statements

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H222 Extremely flammable aerosol.  
H229 Pressurized container: may burst if heated.

### Precautionary statements

#### Precautionary statements - general

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

#### Precautionary statements - prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.

#### Precautionary statements - storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

### Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

This material is combustible, but will not ignite readily.




## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	wt%	Classification acc. to 1272/2008/EC	Pictograms
Poly[oxy(methyl-1,2-ethanediy)], $\alpha$ -butyl- $\omega$ -hydroxy-	CAS No 9003-13-8  EC No 500-003-1	50 - <75	Acute Tox. 4 / H302	
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	CAS No 90622-58-5  EC No 927-285-2	25 - <50	Asp. Tox. 1 / H304	
Kohlenstoffdioxid	CAS No 124-38-9  EC No 204-696-9	1 - <5	Press. Gas C / H280	

For full text of abbreviations: see SECTION 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

##### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

##### Following skin contact

Wash with plenty of soap and water.

##### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

##### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

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

none

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

water spray, BC-powder

##### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

##### Hazardous combustion products

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### For non-emergency personnel

Remove persons to safety.

##### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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### 6.3 Methods and material for containment and cleaning up

#### Advices on how to contain a spill

Covering of drains.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Recommendations

#### • Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Managing of associated risks

#### • Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice

#### • Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

### 7.3 Specific end use(s)

See section 16 for a general overview.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values

#### Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Source
EU	carbon dioxide	124-38-9	IOELV	5,000	9,000			2006/15/E C
GB	carbon dioxide	124-38-9	WEL	5,000	9,150	15,000	27,400	EH40/200 5

#### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average

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### Relevant DNELs/DMELs/PNECs and other threshold levels

#### • relevant DNELs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	DNEL	0.83 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	DNEL	2.9 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects

#### • relevant PNECs of components of the mixture

Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	PNEC	100 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	PNEC	3.33 mg/l	aquatic organisms	water	intermittent release

## 8.2 Exposure controls

### Appropriate engineering controls

General ventilation.

### Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

##### • hand protection

Butyl / Viton; Layer thickness: 0.6 mm; Break through time: 480 min.

##### • other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

#### Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

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### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

##### Appearance

Physical state	aerosol (spray aerosol)
Colour	colourless - clear
Odour	characteristic

##### Other physical and chemical parameters

pH (value)	
Melting point/freezing point	not determined
Initial boiling point and boiling range	-78.5 °C
Flash point	>61 °C (im geschlossenen Tiegel)
Evaporation rate	not determined
Flammability (solid, gas)	Flammable aerosol in accordance with GHS criteria non-flammable
Explosive limits	
• lower explosion limit (LEL)	0,5 vol%
• upper explosion limit (UEL)	5 vol%
Vapour pressure	2,500 – 3,500 hPa at 20 °C
Density	0.8668 – 0.8868 g/cm <sup>3</sup> at 20 °C
Solubility(ies)	not determined
Partition coefficient	
n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	232 °C
Viscosity	not relevant (aerosol)
Explosive properties	none
Oxidising properties	none

#### 9.2 Other information

Refractive index	1.431 – 1.441 (20 °C)
Solvent content	98.76 %
Solid content	0 %
propellant content	1.24 %

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

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### Hints to prevent fire or explosion

Protect from sunlight.

### Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification according to GHS (1272/2008/EC, CLP)

##### Acute toxicity

Shall not be classified as acutely toxic.

##### • Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	oral	2,000 mg/kg

##### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

##### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

##### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

##### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

##### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

##### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

##### Other information

Repeated exposure may cause skin dryness or cracking.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

##### Aquatic toxicity (acute)

##### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	LC50	104 mg/l	fish	96 h
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	EL50	>100 mg/l	aquatic invertebrates	48 h

##### Aquatic toxicity (chronic)

##### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	EL50	358 mg/l	algae	24 h
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	EC50	>1,000 mg/l	microorganisms	10 min

##### Biodegradation

The relevant substances of the mixture are readily biodegradable.

#### 12.2 Persistence and degradability

##### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	oxygen depletion	79 %	28 d
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8	DOC removal	95 %	28 d
Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics	90622-58-5	oxygen depletion	9.6 %	5 d

#### 12.3 Bioaccumulative potential

Data are not available.

##### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -butyl- $\omega$ -hydroxy-	9003-13-8		>1.18 - <4.37 (28 °C)	
Kohlenstoffdioxid	124-38-9		0.83	

#### 12.4 Mobility in soil

Data are not available.

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### 12.5 Results of PBT and vPvB assessment

Data are not available.

### 12.6 Other adverse effects

Data are not available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

## SECTION 14: Transport information

14.1	UN number	1950
14.2	UN proper shipping name	AEROSOLS
14.3	Transport hazard class(es)	
	Class	2 (gases) (aerosol)
	Subsidiary risk(s)	2.1 (flammability)
14.4	Packing group	not assigned to a packing group
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user	
	Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	
	The cargo is not intended to be carried in bulk.	

#### Information for each of the UN Model Regulations

##### • Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1950
Proper shipping name	AEROSOLS
Class	2
Classification code	5F
Danger label(s)	2.1



Special provisions (SP)	190, 327, 344, 625
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	D

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### • International Maritime Dangerous Goods Code (IMDG)

UN number	1950
Proper shipping name	AEROSOLS
Class	2.1
Danger label(s)	2.1



Special provisions (SP)	63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ)	E0
Limited quantities (LQ)	1 L
EmS	F-D, S-U
Stowage category	-

### • International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	1950
Proper shipping name	Aerosols, flammable
Class	2.1
Danger label(s)	2.1



Special provisions (SP)	A145, A167
Excepted quantities (EQ)	E0
Limited quantities (LQ)	30 kg

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

#### • Directive 75/324/EEC relating to aerosol dispensers

**Classification of the gas/aerosol** Extremely flammable

**Labelling**

Pressurized container: may burst if heated  
Keep out of the reach of children  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
Do not pierce or burn, even after use  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### SECTION 16: Other information

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits ( <a href="http://www.nationalarchives.gov.uk/doc/open-government-licence/">http://www.nationalarchives.gov.uk/doc/open-government-licence/</a> )
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
IOELV	Indicative occupational exposure limit value
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Press. Gas	Gas under pressure
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport international ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)

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Abbr.	Descriptions of used abbreviations
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

### Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

### Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H222	Extremely flammable aerosol.
H229	Pressurized container: may burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.