

Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 01.07.2026

Version number 14 (replaces version 13)

Revision: 01.07.2026

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

- **1.1 Product identifier**
- **Trade name:** Silicone Grease 8513
- **Article number:** 8513
- **UFI:** KJ40-N03G-3003-V3TQ
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Product category** Lubricants, greases, release products
- **Application of the substance / the mixture** Lubrification
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
The Swatch Group Research and Development Ltd.
Division Moebius
Kreuzenstrasse 30
CH-4452 Itingen
Switzerland
Tel.: +41 61 975 73 00
moebius@moebius-lubricants.ch
- **1.4 Emergency telephone number:**
Tox Info Suisse, info@toxinfo.ch
Phone: +41 44 251 51 51 or CH-Emergency Phone: 145 (24h)

SECTION 2: Hazards identification

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



GHS08 health hazard

Repr. 1B H360FD May damage fertility. May damage the unborn child.

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

PBT EUH440 Accumulates in the environment and living organisms including in humans.

vPvB EUH441 Strongly accumulates in the environment and living organisms including in humans.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**
boric acid
- **Hazard statements**
H360FD May damage fertility. May damage the unborn child.
H412 Harmful to aquatic life with long lasting effects.
EUH441 Strongly accumulates in the environment and living organisms including in humans.
- **Precautionary statements**
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.
P405 Store locked up.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Restricted to professional users.

2.3 Other hazards

No hazard has been identified as the maximum bioavailable concentration of octamethylcyclotetrasiloxane (D4) is below the classification limit.

Results of PBT and vPvB assessment**PBT:**

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

540-97-6	Dodecamethylcyclohexasiloxane [D6]
541-02-6	Decamethylcyclopentasiloxane [D5]

vPvB:

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

540-97-6	Dodecamethylcyclohexasiloxane [D6]
541-02-6	Decamethylcyclopentasiloxane [D5]

Determination of endocrine-disrupting properties

540-97-6	Dodecamethylcyclohexasiloxane [D6]	List II
541-02-6	Decamethylcyclopentasiloxane [D5]	List II

SECTION 3: Composition/information on ingredients

3.2 Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 540-97-6 EINECS: 208-762-8	Dodecamethylcyclohexasiloxane [D6] Acute Tox. 4, H302; Aquatic Chronic 4, H413; PBT, EUH440; vPvB, EUH441 PBT; vPvB	≤1%
CAS: 541-02-6 EINECS: 208-764-9	Decamethylcyclopentasiloxane [D5] PBT, EUH440; vPvB, EUH441 PBT; vPvB	≤1%
CAS: 10043-35-3 EINECS: 233-139-2	boric acid Repr. 1B, H360FD	≥0.3-≤1%
CAS: 556-67-2 EINECS: 209-136-7	Octamethylcyclotetrasiloxane [D4] Flam. Liq. 3, H226; Repr. 2, H361f; Aquatic Chronic 1, H410 (M=10); PBT, EUH440; vPvB, EUH441 PBT; vPvB	≥0.025-<0.25%

SVHC

10043-35-3	boric acid
541-02-6	Decamethylcyclopentasiloxane [D5]
540-97-6	Dodecamethylcyclohexasiloxane [D6]

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Rinse immediately with plenty of water for a few minutes. Then wash the skin with soap and water.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** If symptoms persist consult doctor.**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water spray
Foam
Fire-extinguishing powder
Carbon dioxide
Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**
The product burns under fire conditions. Thermal decomposition or combustion may release carbon oxides, silicon oxides and other toxic gases or vapours.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Pick up mechanically.
- **6.4 Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a dry place. Store in a well-ventilated place.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

10043-35-3 boric acid

MAK (Switzerland)	Short-term value: 1.8 e mg/m ³ Long-term value: 1.8 e mg/m ³ R1bd R1bf SSb;
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required

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· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Not required

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Physical state**

Solid

· Colour:

Whitish

· Odour:

Odourless

· Odour threshold:

Not determined

· Melting point/freezing point:

Undetermined

· Boiling point or initial boiling point and boiling range

Undetermined

· Flammability

Not determined

· Lower and upper explosion limit**· Lower:**

Not determined

· Upper:

Not determined

· Flash point:

> 100 °C

· Decomposition temperature:

Not determined

· pH

Not applicable

· Viscosity:**· Kinematic viscosity**

Not applicable

· Dynamic:

Not applicable

· Solubility**· water:**

Insoluble.

· Partition coefficient n-octanol/water (log value)

Not determined

· Vapour pressure:

Not applicable

· Density and/or relative density**· Density at 20 °C:**0.975 g/cm³**· Relative density**

Not determined

· Vapour density

Not applicable

· Particle characteristics

See section 3.

· 9.2 Other information**· Appearance:****· Form:**

Pasty

· Important information on protection of health and environment, and on safety.**· Ignition temperature:**

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Change in condition**· Evaporation rate**

Not applicable.

· Information with regard to physical hazard classes**· Explosives**

Void

· Flammable gases

Void

· Aerosols

Void

· Oxidising gases

Void

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· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidising agent
- **10.6 Hazardous decomposition products:**
Thermal decomposition or combustion can release carbon oxides and other toxic gases or vapours.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage fertility. May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

540-97-6	Dodecamethylcyclohexasiloxane [D6]	List II
541-02-6	Decamethylcyclopentasiloxane [D5]	List II
556-67-2	Octamethylcyclotetrasiloxane [D4]	List II

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.

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· 12.5 Results of PBT and vPvB assessment**· PBT:**

540-97-6 Dodecamethylcyclhexasiloxane [D6]

541-02-6 Decamethylcyclopentasiloxane [D5]

· vPvB:

540-97-6 Dodecamethylcyclhexasiloxane [D6]

541-02-6 Decamethylcyclopentasiloxane [D5]

· 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.**· 12.7 Other adverse effects****· Additional ecological information:****· General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations**· 13.1 Waste treatment methods****· Recommendation** Must not be disposed together with household garbage. Do not allow product to reach sewage system.**· Uncleaned packaging:****· Recommendation:** Disposal must be made according to official national regulations.**SECTION 14: Transport information****· 14.1 UN number or ID number****· ADR, ADN, IMDG, IATA**

Not applicable

· 14.2 UN proper shipping name**· ADR, ADN, IMDG, IATA**

Not applicable

· 14.3 Transport hazard class(es)**· ADR, ADN, IMDG, IATA****· Class**

Not applicable

· 14.4 Packing group**· ADR, IMDG, IATA**

Not applicable

· 14.5 Environmental hazards:**· Marine pollutant:**

No

· 14.6 Special precautions for user

Not applicable

· 14.7 Maritime transport in bulk according to IMO instruments Not applicable**· UN "Model Regulation":**

Not applicable

SECTION 15: Regulatory information**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

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· REGULATION (EU) 2019/1148**· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:**· Other regulations, limitations and prohibitive regulations****· Substances of very high concern (SVHC) according to REACH, Article 57**

10043-35-3 boric acid

541-02-6 Decamethylcyclopentasiloxane [D5]

540-97-6 Dodecamethylcyclohexasiloxane [D6]

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Relevant phrases

EUH440 Accumulates in the environment and living organisms including in humans.

EUH441 Strongly accumulates in the environment and living organisms including in humans.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H360FD May damage fertility. May damage the unborn child.

H361f Suspected of damaging fertility.

H410 Very toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· Date of previous version: 05.09.2024**· Version number of previous version: 13****· Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Repr. 1B: Reproductive toxicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

· * Data compared to the previous version altered.