



Sealgood 2

Superior Clamping and Gripping



Safety data sheet

Sealgood 2
high-performance grease

Created on
June 1, 2019

Revision number
1

Revised on
June 1, 2019

Safety data sheet

according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Substance name: Sealgood 2

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

Intendend use of the substance/mixture: Lubricant for commercial applications
Uses advised against: No information available.

1.3 Details of the supplier providing the safety data sheet

Company name: SCHUNK GmbH & Co. KG
Spann- und Greiftechnik
Street: Bahnhofstrasse 106-134
City: 74348 Lauffen/Neckar, Germany
Phone: +49-7133-103-2794
E-mail: service.greifsysteme@de.schunk.com

1.4 Poison Information Center Freiburg

Phone: +49-761-19240 (available 24 hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Health hazards

Eye Irritation: Category 2 H319: Causes serious eye irritation.

2.2 Label elements

Regulation (EC) No. 1272/2008

Signal word:

Caution

Pictogram:



Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P280 Wear protective gloves and eye/face protection
P305+P351+P338 IF IN EYES:
Rinse cautiously with water for several minutes.
Remove any contact lenses if possible.
Continue rinsing.
P333+P313 If skin irritation or rash occurs:
Seek medical advice/attention:
P337+P313 If eye irritation persists:
Seek medical advice/attention:

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Special labeling of certain mixtures:

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains long-chain alkylamine, long-chain alkyl dithio thiadiazole May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

CAS no.	Description			
EC no.	INDEX no.	REACH no.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Percentage
1174522-15-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
926-141-6		01-2119456620-43	H304, Asp. Tox. 1	25 - < 30%
110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine			
		01-2119488991-20	H332, Acute Tox. 4; H315, Skin Irrit. 2; H318, Eye Dam. 1; H400, Aquatic Acute 1	1 - < 3%
	Long-chain alkyl polysulfide			
			H413, Aquatic Chronic 4	1 - < 5%

For the exact wording of the H and EUH phrases, see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:	In case of an accident or if you feel unwell, seek medical attention immediately (if possible, show operating instructions or safety data sheet). In case of doubt or if symptoms are present, seek medical advice.
After inhalation:	Provide fresh air. Move the person to fresh air and ensure unobstructed breathing. If you feel unwell, call a doctor.
After contact with skin:	Remove contaminated clothing and wash before reuse. If on skin, wash immediately with plenty of water and soap. If skin irritation occurs, consult a doctor.
Eye contact:	IF IN EYES: Rinse cautiously with water for several minutes. Remove any contact lenses if possible. Continue rinsing. (15 min) Seek medical advice immediately. If eye irritation occurs, consult an eye doctor.
After swallowing:	Rinse out mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person or a person with cramps. Do not induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

May produce an allergic reaction.

Allergic reactions: Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

First aid, decontamination, symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry powder, carbon dioxide (CO₂), alcohol-resistant foam, water spray.

Unsuitable extinguishing media: Water with full jet.

5.2 Specific hazards arising from the substance or mixture

In case of fire, the following

can be produced: Carbon monoxide, hydrogen fluoride, nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment

for fire fighting:

Protective clothing.

In case of fire:

Wear self-contained breathing apparatus.

Use extinguishing measures that are appropriate for the surrounding environment.

Additional advice:

Collect contaminated extinguishing water separately.

Do not allow it to enter the sewer system or waterways.

Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

See precautions in SECTION 7 and 8.

Wear personal protective equipment (see SECTION 8).

Avoid contact with eyes and skin.

Leakage/spillage of product poses a slipping hazard.

6.2 Environmental precautions

Do not allow the product to enter the subsoil/ground.

Do not allow the product to enter the sewer system or waterways.

Prevent the product from spreading over a wide area (e. g. by containment or oil barriers).

Notify the relevant authorities if the product enters waterways, soil or sewage system.

6.3 Methods and material for containment and cleaning up

Remove spillage immediately.

Soak up with absorbent material, (e.g. sand, diatomaceous earth, general-purpose absorbent).

Pick up by mechanical means and place in suitable containers for disposal.

Dispose of according to official regulations.

Ensure adequate ventilation.

Alkaline cleaning agent.

6.4 Reference to other SECTIONS

See precautions in SECTION 7 and 8.

See SECTION 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Information for safe handling:	See SECTION 8. Wear personal protective equipment (see SECTION 8) Avoid contact with eyes and skin. Keep container tightly closed. Ensure adequate ventilation. Take precautions to ensure that the product or residues of the product cannot enter waterways or the sewage system during use.
Information on fire and explosion protection:	Keep away from heat sources (e.g. hot surfaces), sparks and open flames. Keep away from sources of ignition – no smoking. Take measures to prevent the buildup of electrostatic charge.
Further advice on handling:	Take the usual precautions for handling chemicals.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers:	Store only in the original container in a cool, well-ventilated place. Keep container tightly closed. Protect from heat and direct sunlight.
Instructions for storage with other products:	Keep away from food, beverages and animal feed. Keep away from: Strong oxidizing agents.
Further advice on storage conditions:	No information available.
Storage class according to TRGS 510:	11, combustible solids.

7.3 Specific end uses

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Additional information on limit values

Germany:	TRGS 900 oil mist, 5 mg/m ³ .
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8.2 Exposure controls

Appropriate engineering controls:	Technical measures and the use of appropriate procedures have priority over the use of personal protective equipment. Safe handling: see SECTION 7.
Safety and hygiene measures:	Take the usual precautions for handling chemicals. Only wear suitable, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothing. Take off all contaminated, soaked clothing immediately. Wash hands and face thoroughly before breaks and after work; shower if necessary. Do not eat, drink, smoke or take snuff at work. Use skin care products after work.
Eye/face protection:	Suitable eye protection: Goggles, tight-fitting safety glasses. Face shield.

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Hand protection:	Wear tested safety gloves: DIN EN 374. Suitable material: NBR (nitrile rubber), antistatic. Thickness of glove material ≥ 0.35 mm. Wearing time with occasional contact (splashes): max. 480 min (NBR (nitrile rubber)) Wearing time with continuous contact 240 – 480 min (NBR (nitrile rubber)). Observe the wearing time limits in the manufacturer's instructions. Breakthrough times and swelling properties of the material must be taken into account. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wear cotton glove liners if possible.
Body protection:	Suitable body protection: protective clothing. Wear antistatic shoes and work clothes.
Respiratory protection:	Personal respiratory protection is normally not necessary. Respiratory protection must be worn if exhaust or ventilation systems cannot be provided or are inadequate. Combination filter (EN 14387) A-P2.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	Solid
Form:	Paste
Color:	Light brown
Odor:	Oily
pH value:	Not applicable

Changes in physical state

Melting point:	Not applicable
Initial boiling point and boiling range:	Not applicable
Sublimation temperature:	Not determined
Softening point:	Not determined
Pour point:	Not determined
Flash point:	> 84 °C
Sustained combustibility:	No data available

Flammability

Solid:	Not determined
Gas:	Not determined

Explosive properties

The product is not explosive, but explosive vapor/air mixtures may be formed.

Lower explosive limit:	Hydrocarbons: 0.5% by volume
Lower explosive limit:	Hydrocarbons: 5.5% by volume
Ignition temperature:	Not determined

Autoignition temperature

Solid:	Not determined
Gas:	Not determined
Decomposition temperature:	Not determined

The product is not self-igniting.

Oxidizing properties

Vapor pressure:	Not determined
Vapor pressure:	Not determined
Density (at 20 °C):	0.86 – 0.92 g/cm ³
Bulk density:	Not determined
Solubility in water:	Immiscible

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Solubility in other solvents:	Not determined
Partition coefficient:	Not determined
Dyn. viscosity (at 20 °C):	> 87 Pas
Kin. viscosity:	Not determined
Flow time:	Not determined
Vapor density:	Not determined
Evaporation rate:	Not determined
Solvent separation test:	Not determined
Solvent content:	Not determined

9.2 Other information

Solid content:	Not determined
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SECTION 10: Stability and reactivity

10.1 Reactivity	This material is considered non-reactive under normal conditions of use.
10.2 Chemical stability	The product is chemically stable under recommended conditions of storage and use as well as temperature conditions.
10.3 Possibility of hazardous reactions	No hazardous reactions are known.
10.4 Conditions to be avoided	No information available.
10.5 Incompatible materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Thermal decomposition with formation of carbon monoxide. Decomposition temperature: > 400 °C fluorine compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

CAS no.	Description			
Route of exposure	Dose	Species	Source:	Method
1174522-15-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
Ingestion	LD50 > 5,000 mg/kg	Rat	Study report (1995)	OECD Guideline 401
Dermal	LD50 > 5,000 mg/kg	Rabbit	Study report (1993)	OECD Guideline 402
Inhalation (4 h), vapor	LD50 > 4,951 mg/kg	Rat	Study report 2005	OECD 403
110-25-8	(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine			
Inhalation, vapor	ATE 11 mg/l			
Inhalation, aerosol	ATE 1.5 mg/l			

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Irritation and corrosivity:	Causes severe eye irritation. Corrosive/irritant effect on skin: Based on available data, the classification criteria are not met.
Sensitization:	Contains long-chain alkylamine, long-chain alkyl dithio thiadiazole. May produce an allergic reaction.
Carcinogenicity, mutagenicity and reproductive toxicity:	Based on available data, the classification criteria are not met.
Specific target organ toxicity – single exposure:	Based on available data, the classification criteria are not met.
Specific target organ toxicity – repeated exposure:	Repeated exposure may cause skin dryness or cracking.
Aspiration hazard:	Based on available data, the classification criteria are not met.

SECTION 12: Environmental information

12.1 Toxicity

The product has not been tested. Not classified based on component data.

CAS no.	Description				
Aquatic toxicity	Dose	[h] [d]	Species	Source:	Method
1174522-15-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics				
Acute toxicity to fish	LC50 > 1,000 mg/l	96 h			
Acute toxicity to algae	ErC50 > 1,000 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1994)	OECD Guideline 201
Acute toxicity to crustaceans	EC50 > 1,000 mg/l	48 h			
Toxicity to fish	NOEC 0.173 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
Toxicity to crustaceans	NOEC 1.22 mg/l	21 d	Daphnia magna	Company report (2010)	The aquatic toxicity was estimated by a

12.2 Persistence and degradability

The product has not been tested.

CAS no.	Description			
Method	Value	d	Source:	Evaluation
1174522-15-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
	77 – 83%	28		Readily biodegradable (according to OECD criteria).

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12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS no.	Description
Log Pow	
1174522-15-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
> 4	

BCF

CAS no.	Description	
BCF	Species	Source:
1174522-15-6	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics	
144.3	Calculated	Other company data

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Dispose of according to official regulations. Hazardous waste.

Industry- and process-specific waste codes/descriptions must be assigned in accordance with the European Waste Catalogue.

Disposal of uncleaned packaging and recommended cleaning agents

Recycle containers that have been thoroughly emptied. Empty containers may contain residues of hazardous substances.

Dispose of containers with residual contents in accordance with local regulations.

SECTION 14: Transport information

Overland transport (ADR/RID)

14.1	UN number	Not dangerous goods as defined by these transport regulations.
14.2	Proper UN shipping name	Not dangerous goods as defined by these transport regulations.
14.3	Transport hazard classes	Not dangerous goods as defined by these transport regulations.
14.4	Packing group	Not dangerous goods as defined by these transport regulations.

Transport by inland waterways (ADN)

14.1	UN number	Not dangerous goods as defined by these transport regulations.
14.2	Proper UN shipping name	Not dangerous goods as defined by these transport regulations.
14.3	Transport hazard classes	Not dangerous goods as defined by these transport regulations.
14.4	Packing group	Not dangerous goods as defined by these transport regulations.

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Maritime transport (IMDG)

14.1 UN number	Not dangerous goods as defined by these transport regulations.
14.2 Proper UN shipping name	Not dangerous goods as defined by these transport regulations.
14.3 Transport hazard classes	Not dangerous goods as defined by these transport regulations.
14.4 Packing group	Not dangerous goods as defined by these transport regulations.

Air transport (ICAO-TI/IATA-DGR)

14.1 UN number	Not dangerous goods as defined by these transport regulations.
14.2 Proper UN shipping name	Not dangerous goods as defined by these transport regulations.
14.3 Transport hazard classes	Not dangerous goods as defined by these transport regulations.
14.4 Packing group	Not dangerous goods as defined by these transport regulations.
14.5 Environmental hazards ENVIRONMENTALLY HAZARDOUS:	No
14.6 Special precautions for user	Not hazardous goods as defined by these these transport regulations.
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not dangerous goods as defined by these transport regulations.

SECTION 15: Regulatory information

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

EU Regulations

Other regulations, restrictions and prohibitions:

Ozone-depleting substances: Not covered by Regulation (EC) No. 1005/2009.
Persistent organic pollutants: Not covered by Regulation (EC) No. 850/2004.
Export and import of hazardous chemicals: Not covered by Regulation (EC) No. 649/2012.
SEVESO III (COMAH): Not covered by Directive 2012/18/EU.

National regulations

Germany

Reference to German Ordinance on Facilities Handling Substances that are Hazardous to Water (AwSV):

Water hazard class: WKG 1 – slightly hazardous to water.
Rules for classifying mixtures according to Annex 1, No. 5 of AwSV.

Employment restrictions:

No employment bans and restrictions under § 11 and 12 of the Maternity Protection Act (MuSchG).
Observe employment bans or restrictions for young people under § 22 of the Law on Protection of Young People at Work.

Hazardous Incident Ordinance – 12.BImSch:

Not subject to 12. BImSchV (Federal Immission Control Act) (Hazardous Incident Ordinance)

15.2 Chemical safety assessment

A chemical safety assessment has been conducted for the following substances in this mixture:
Hydrocarbons, C11–C14, n-alkanes, isoalkanes, cyclics, < 2% aromatics
(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine

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SECTION 16: Other information

Abbreviations and acronyms

ADR:	Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID:	Règlement international conernat le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
IATA-DGR:	Dangerous Goods Refulations by the "International Air Transport Association" (IATA)
ICAO:	International Civil Aviation Organization
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO)
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
GHS:	Globally Harmonized System of Classification and Labelling of Chemicals
CLP:	Regulation on Classification, Labelling and Packaging of Substances and Mixtures,
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
EC50:	Effective concentration, 50 percent
DNEL:	Derived No Effect Level
PNEC:	Predicted No Effect Concentration
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative

Classification of mixtures and evaluation method applied in accordance with Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification method
H319, Eye Irrit. 2	Calculation method

Wording of H-and EUH-phrases (number and full text)

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H413	Harmful to aquatic life with long-lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains long-chain alkylamine, long-chain alkyl dithio thiadiazole. May produce an allergic reaction.

Other information

The information in this safety data sheet is provided based on our current knowledge. It does not constitute an assurance of product features and does not establish a contractual relationship. The recipient of our product is responsible for observing existing laws and regulations.

(The data for the hazardous ingredients were taken from the last version of the sub-contractor's safety data sheet.)

No. 1

for safe, precise
gripping and holding.



J. Lehmann

Jens Lehmann, German goalkeeper legend,
SCHUNK brand ambassador since 2012 for
safe, precise gripping and holding.
schunk.com/lehmann

852 minutes without a goal
against him in the Champions League

681 minutes without a goal
against him on the national team

2 intercepted penalties in the
2006 World Cup

1 headed goal as a goalie

English champion
with **0** defeats

and

Over **2,000,000**
precision toolholders sold

About **1,000,000**
SCHUNK grippers delivered

More than **100,000**
lathe chucks and stationary work-
holding systems used worldwide

Over **16,000,000**
standard clamping jaws sold

More than **75,000**
customized solutions in
hydraulic expansion technology

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