



Solis Ambo M5S high-performance cutting oil

Print date 27.03.2024
Revision date 27.03.2024
Version 2.1 (en)
replaces version of 05.06.2020 (2.0)

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

* **1.1 Product identifier**

Trade name/designation Solis Ambo M5S high-performance cutting oil

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

Sector of uses [SU]

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Use of the substance/mixture

Cutting, grinding, polishing

* **Uses advised against**

This information is not available.

* **1.3 Details of the supplier of the safety data sheet**

Supplier

joke Technology GmbH
Asselborner Weg 14-16
D-51249 Bergisch Gladbach
Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60
E-mail info@joke.de
Website <https://www.joke-technology.com/>

Department responsible for information:

Telephone +49 (0) 22 04 / 8 39-0
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):

sida@joke.de

1.4 Emergency telephone number

Vergiftungs-I-Z. Freiburg (Sprache / Language: DE, EN) +49 (0) 761 / 1 92 40
REACH and CLP UK CA Help Desk +44 171 635 9191

* **SECTION 2: Hazards identification**

* **2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Aquatic Chronic 3, H412	

Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

* **2.2 Label elements**

* **Labelling according to Regulation (EC) No 1272/2008 [CLP]**

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

* **Precautionary statements**

P273 Avoid release to the environment.

P501 Dispose of contents and containers in accordance with local, regional, national and international regulations.

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* **Special rules for supplemental label elements for certain mixtures**

EUH208 Contains Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts. May produce an allergic reaction.

* **2.3 Other hazards*** **Other adverse effects**

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Endocrine disrupting properties

Effective dose	Method, Evaluation	Source, Remark
		This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

* **SECTION 3: Composition / information on ingredients****3.1 Substances**

not applicable

* **3.2 Mixtures*** **Hazardous ingredients**

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
1471316-72-9	939-603-7		Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	0.1 < 1 weight-%	Skin Sens. 1; H317	ATE(oral): > 5000 mg/kg ATE(dermal): > 5000 mg/kg
25307-17-9	246-807-3		2,2'-(octadec-9-enylimino)bisethanol	0.1 < 1 weight-%	Acute Tox. 4; H302 Skin Corr. 1B; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=10 (Aquatic Acute 1) M=1 (Aquatic Chronic 1) ATE(oral): 1000-1587 mg/kg

REACH No.	Substance name
01-2119978241-36	Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts
01-2119510876-35	2,2'-(octadec-9-enylimino)bisethanol

* **Additional information**

Mixture of listed substances with harmless additives.

The highly refined mineral oil contains a DMSO extractable content of less than 3% (w/w) according to IP 346.

* **SECTION 4: First aid measures*** **4.1 Description of first aid measures*** **General information**

If threatening unconsciousness, position and transport in recovery position

Never give anything by mouth to an unconscious person or a person with cramps.

In the event of persistent symptoms receive medical treatment.

First aider: Pay attention to self-protection!

Remove affected person from the danger area and lay down.



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Following inhalation

Remove casualty to fresh air and keep warm and at rest.

* **Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.
Remove contaminated, saturated clothing immediately.

After eye contact

Eye rinsing with water carefully while protecting unhurt eye.
Remove contact lenses, if possible
Consult an ophthalmologist.

* **Following ingestion**

Do NOT induce vomiting.
If swallowed seek medical advice immediately and show the doctor packing or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

This information is not available.

Effects

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

* **SECTION 5: Firefighting measures**

* **5.1 Extinguishing media**

* **Suitable extinguishing media**

Foam
Carbon dioxide (CO₂)
Extinguishing powder
Water mist

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire: Wear self-contained breathing apparatus.
Wear full chemical protective clothing.



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* **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

* **SECTION 6: Accidental release measures**

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

* **For non-emergency personnel**

Provide adequate ventilation.
Remove all sources of ignition.
Remove persons to safety.
Use personal protection equipment.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Special danger of slipping by leaking/spilling product.

* **For emergency responders**

Personal protection equipment
Use appropriate respiratory protection.
Ensure adequate ventilation.
Use breathing apparatus if exposed to vapours/dust/aerosol.

* **6.2 Environmental precautions**

Do not allow to enter into surface water or drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).
In case of pollution of waters or sewers, inform the competent authorities.

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

* **For containment**

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).
Take up mechanically and send for disposal.
After taking up the material dispose according to regulation.

* **For cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

* **6.4 Reference to other sections**

Disposal: see section 13

* **SECTION 7: Handling and storage**

* **7.1 Precautions for safe handling**

* **Protective measures**

Avoid:
Skin contact
Eye contact
Generation/formation of mist
Prevent small spills (danger of slipping)
Use only in well-ventilated areas.
Keep away from sources of ignition - No smoking.



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Advices on general occupational hygiene

Thorough skin-cleansing after handling the product.
Apply skin care products after work.
When using do not eat, drink, smoke, sniff.
Wash contaminated clothing immediately.
Keep away from food and drink.

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

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed.

Materials to avoid

Do not store together with:
Oxidising agent
Food and feedingstuffs

* **Further information on storage conditions**

Store and transport separate of food.
Protect from atmospheric moisture and water
Protect from direct solar radiation.
Avoid product rests at / on containers.
Store at 5 to 40°C (=41 to 104°F).
Storage time: 3 years.

7.3 Specific end use(s)

No data available

* **SECTION 8: Exposure controls/personal protection**

8.1 Control parameters

No data available

* **8.2 Exposure controls**

* **Appropriate engineering controls**

* **Remark**

Ensure good ventilation of the workplace.

* **Personal protection equipment**

* **Eye/face protection**

safety goggles, in case of increased risk add protective face shield
EN 166

* **Hand protection**

chemical-resistant gloves
Nitrile rubber; observe manufacturer's instructions and "CEN" mark
observe; penetration time: level 6, >480 minutes, thickness 0.9-1 mm; CE-certified according to EN 374 Cat III).

* **Body protection:**

chemical resistant clothing recommended
Chemical resistant safety shoes
Avoid contact with eyes and skin.
impermeable protective overall



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Respiratory protection

Suitable respiratory protection apparatus:
 Self-contained respirator (breathing apparatus)
 Respiratory protection necessary at:
 insufficient exhaust
 prolonged exposure

* **Remark**
 Preventive skin protection with skin protection ointment.

* **Environmental exposure controls**

* **Remark**
 Avoid release into the environment.

* **Additional information**

Does not contain substances in quantities above the concentration limits for which an occupational exposure limit value is specified.

* **SECTION 9: Physical and chemical properties**

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

Physical state

liquid

Colour

brown

Odour

characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit 6.5 Vol-%		
Lower and upper explosion limit	Lower explosion limit 0.6 Vol-%		
Flash point	180 °C	DIN EN 57	
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	kinematic 174 mm ² /s (40°C)	ASTM D 7042	
Solubility(ies)	not determined		



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	Value	Method	Source, Remark
Partition coefficient n-octanol/water (log value)	8		CAS No1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts
Partition coefficient n-octanol/water (log value)	3.4		CAS No 25307-17-9 2,2'-(octadec-9-enylimino)bisethanol
Vapour pressure	not determined		
Density and/or relative density	0.91 g/cm ³ (20°C)	DIN EN ISO 12185	
Relative vapour density	not determined		
particle characteristics	not determined		

*** 9.2 Other information**

No data available

*** SECTION 10: Stability and reactivity**

10.1 Reactivity

No hazardous reactions known.

*** 10.2 Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

*** 10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

High temperatures, ignition sources, incompatible materials

*** 10.5 Incompatible materials**

Acid, concentrated
 Acid
 Oxidising agent, strong

10.6 Hazardous decomposition products

No hazardous decomposition products known.

*** SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

*** Acute toxicity**

*** Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	CAS No1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts LD50: > 5000 mg/kg Species Rat		



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	Effective dose	Method, Evaluation	Source, Remark
Acute dermal toxicity	CAS No 25307-17-9 2,2'-(octadec-9-enylimino)bisethanol LD50: 1000- 1587 mg/kg Species Rat		
Acute inhalation toxicity	CAS No 1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts LD50: > 5000 mg/kg Species Rabbit		
	not determined		

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

* **Skin corrosion/irritation**

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

* **Serious eye damage/irritation**

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

Sensitisation to the respiratory tract

Assessment/classification
 No information available.

* **Skin sensitisation**

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
This information is not available.			

* **Assessment/classification**
 May cause an allergic skin reaction.

* **Germ cell mutagenicity**

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

* **Carcinogenicity**

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

* **Reproductive toxicity**

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



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* **Overall Assessment on CMR properties**

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

* **STOT-single exposure**

* **STOT SE 1 and 2**

Other information

This information is not available.

* **Assessment/classification**

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

* **STOT-repeated exposure**

* **Assessment/classification**

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

Aspiration hazard

Remark

This information is not available.

11.2 Information on other hazards

Other information

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

* **SECTION 12: Ecological information**

* **12.1 Toxicity**

* **Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts LC50: > 100 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	CAS No1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts EC50 > 100 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		



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	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) toxicity to algae and cyanobacteria	CAS No1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts EC10 > 1000 mg/L Species Pseudokirchnerella subcapitata Test duration 72 h	OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts NOEC: > 1000 mg/L Species Scenedesmus quadricauda Test duration 3 d	OECD 201	
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

*** 12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation	Degradation rate 8 % Test duration 28 d		CAS No1471316-72-9 Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts Not readily biodegradable in water

*** 12.3 Bioaccumulative potential**

Assessment/classification
 This information is not available.

*** 12.4 Mobility in soil**

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

*** 12.6 Endocrine disrupting properties**

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

*** Additional ecotoxicological information**

*** Additional information**
 Discharge into the environment must be avoided.



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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
120107 *	mineral-based machining oils free of halogens (except emulsions and solutions)

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Handle contaminated packages in the same way as the substance itself.
 Dispose of according to official regulations.

Remark

Collect the waste separately.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
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

Transport in closed, upright and safe containers. Advice on safe handling: see sections 6 - 8

14.7 Maritime transport in bulk according to IMO instruments

No data available

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

Land transport (ADR/RID)

Remark

Not classified for this transport carrier.

Sea transport (IMDG)

Remark

Not classified for this transport carrier.

Air transport (ICAO-TI / IATA-DGR)

Remark

Not classified for this transport carrier.



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* **SECTION 15: Regulatory information**

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

* **EU legislation**

* **Restrictions on use**

Regulation (EC) No 1907/2006 (REACH), Annex XVII No. 3 - not relevant for intended use

* **15.2 Chemical Safety Assessment**

* **National regulations**

For the following substances of this mixture a chemical safety assessment has been carried out:
Benzenesulfonic acids, di-C10-14-alkyl derivatives, calcium salts

* **SECTION 16: Other information**

* **Indication of changes**

* Data changed compared with the previous version

* **Abbreviations and acronyms**

Acute Tox. 4, H302: Acute Toxicity (oral), Category 4
CLP: Classification, Labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service
ATE: Acute Toxicity Estimate
ATEmix: Acute Toxicity Estimate for Mixtures
LC50: Lethal (fatal) Concentration 50%
LD50: Lethal (fatal) Dose 50%
LL50: Lethal Loading 50 %
EC50: Effective Concentration 50%
PBT: persistent and bioaccumulative and toxic
vPvB: very persistent, very bioaccumulative
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Dangerous goods regulations for transport by rail
IMDG: International Maritime Dangerous Goods
SVHC: Substance of Very High Concern
Skin Corr. 1B: Skin corrosion, Sub-category 1B
Skin Sens. 1: Skin sensitizer, Category 1
Aquatic Acute 1: Short-term (acute) aquatic hazard, Category 1
Aquatic Chronic 1: Long-term (chronic) aquatic hazard, Category 1
Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

* **Key literature references and sources for data**

Datasheets of the manufacturer

* **Additional information**

National and local regulations concerning chemicals shall be observed.

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

*

Indication of changes

* Data changed compared with the previous version