



SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier

Product name: PLANTO MIKRO 830 S-CS

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

Identified uses: Metal working

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

Fuchs Schmierstoffe GmbH
Friesenheimer Str. 19
68169 Mannheim

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1.4 Emergency telephone number:

+49 621 3701-1333 ODER +49 621 3701-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

|| The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Directive 67/548/EEC or 1999/45/EC as amended.

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No 1272/2008 as amended.

Environmental Hazards

Chronic hazards to the aquatic environment

Category 3

H412: Harmful to aquatic life with long lasting effects.



Product name: PLANTO MIKRO 830 S-CS

Hazard summary

Physical Hazards: No data available.

2.2 Label Elements

Hazard Statement(s): H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement

Prevention: P273: Avoid release to the environment.

2.3 Other hazards:

By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture based on biodegradable ester compounds in combination with special additives.

Chemical name	Concentration *	Identifier	REACH Registration No.	Notes
Organic polysulphide	10,00 - <25,00%	270-335-7	01-2119540516-41	
Ca-Sulfonate	1,00 - <5,00%	271-529-4		
Na Carbonate	1,00 - <5,00%	207-838-8		
phenolic antioxidant	0,25 - <1,00%	204-881-4	01-2119565113-46	

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Product name: PLANTO MIKRO 830 S-CS

Classification

Chemical name	Classification	
Organic polysulphide	DSD:	R53
	CLP:	Aquatic Chronic 4;H413
Ca-Sulfonate	DSD:	Xi; R36
	CLP:	Eye Irrit. 2;H319
Na Carbonate	DSD:	Xi; R36
	CLP:	Eye Irrit. 2;H319
phenolic antioxidant	DSD:	N; R50/53
	CLP:	Aquatic Acute 1;H400, Aquatic Chronic 1;H410

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.

The full text for all R-phrases and H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Change clothes and shoes contaminated or soaked by the product. Never put rags contaminated by the product into cloth-pockets.

4.1 Description of first aid measures

Inhalation: Supply fresh air; consult doctor in case of symptoms.

Eye contact: Promptly wash eyes with plenty of water while lifting the eye lids.

Skin Contact: Wash with soap and water. The product is not skin irritating.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and delayed: May cause skin and eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No data available.

Treatment: Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: CO₂, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable tensides added

Unsuitable extinguishing media: Water with a full water jet.



Product name: PLANTO MIKRO 830 S-CS

- 5.2 Special hazards arising from the substance or mixture:** During fire, gases hazardous to health may be formed.
- 5.3 Advice for firefighters**
- Special fire fighting procedures:** No data available.
- Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** In case of spills, beware of slippery floors and surfaces.
- 6.2 Environmental Precautions:** Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent from spreading (e.g. by binding or oil barriers).
- 6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acidbinders, universal binders, sawdust).
- 6.4 Reference to other sections:** See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal.

SECTION 7: Handling and storage:

- 7.1 Precautions for safe handling:** Provide adequate ventilation. Observe good industrial hygiene practices. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products.
- 7.2 Conditions for safe storage, including any incompatibilities:** Local regulations concerning handling and storage of waterpolluting products have to be followed. Prevent formation of aerosols. Do not heat up to temperatures close to the flash point.
- 7.3 Specific end use(s):** not applicable

Storage Class: 10, Combustible liquids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
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Product name: PLANTO MIKRO 830 S-CS

Organic polysulphide - Inhalable fraction.	MAK	100 mg/m ³	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2011)
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8.2 Exposure controls

Appropriate engineering controls: No data available.

Individual protection measures, such as personal protective equipment

General information:	Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.
Eye/face protection:	Safety glasses (EN 166) recommended during refilling.
Skin protection	
Hand Protection:	Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor. Avoid breathing vapour/ aerosol.
Thermal hazards:	No data available.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Environmental Controls:	No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Brown
Odor:	Characteristic

Product name: PLANTO MIKRO 830 S-CS

Odor Threshold:	No data available.
pH:	not applicable
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	185 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)—:	No data available.
Flammability Limit - Lower (%)—:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	0,96 g/ml (15,00 °C)
Solubility(ies)	
Solubility in Water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	31 mm ² /s (40 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.
9.2 Other information	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	Stable under normal temperature conditions and recommended use.
10.2 Chemical Stability:	No data available.
10.3 Possibility of Hazardous Reactions:	Possible release of flammable substances by distillation in systems with solvent recovery.
10.4 Conditions to Avoid:	Avoid heat or contamination.
10.5 Incompatible Materials:	Strong oxidizing substances. Strong acids. Strong bases.
10.6 Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Oral Product:

Product name: PLANTO MIKRO 830 S-CS

Specified substance(s)

Organic polysulphide	Not classified for acute toxicity based on available data.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	LD 50 (Rat): 4.000 mg/kg
	LD 50 (Rat): 2.930 mg/kg

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	LD 50 (Rabbit): > 2.001 mg/kg
phenolic antioxidant	LD 50 (Rat): > 5.000 mg/kg

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	(Rat, Oral, 28 d): 25 mg/kg

Skin Corrosion/Irritation:

Product:

No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	(Rabbit): Slightly irritating.

Serious Eye Damage/Eye Irritation:

Product:

No data available.

Product name: PLANTO MIKRO 830 S-CS

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	(Rabbit): Slightly irritating.

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	

No sensitizing effect (guinea pig); OECD 406

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

In vivo

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Carcinogenicity

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Reproductive toxicity

Product: No data available.



Product name: PLANTO MIKRO 830 S-CS

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	LC 50 (Fish, 96 h): > 0,57 mg/l (OECD 203)

Aquatic Invertebrates

Product: No data available.

Product name: PLANTO MIKRO 830 S-CS

Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	EC 50 (Water Flea, 48 h): > 0,17 mg/l

Chronic Toxicity

Fish

Product:	No data available.
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Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

Aquatic Invertebrates

Product:	No data available.
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Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	NOEC (Water Flea, 21 d): > 0,39 mg/l

Toxicity to Aquatic Plants

Product:	No data available.
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Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	EC 50 (Alga, 72 h): > 0,42 mg/l

12.2 Persistence and Degradability

Biodegradation

Product:	No data available.
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Specified substance(s)

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	30 %

12.3 Bioaccumulative Potential

Product:	No data available.
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Specified substance(s)

Product name: PLANTO MIKRO 830 S-CS

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	May be accumulated in organism

12.4 Mobility in Soil: No data available.

Known or predicted distribution to environmental compartments

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

12.5 Results of PBT and vPvB assessment: No data available.

Organic polysulphide	No data available.
Ca-Sulfonate	No data available.
Na Carbonate	No data available.
phenolic antioxidant	No data available.

12.6 Other Adverse Effects: Harmful to aquatic life with long lasting effects.

Water Hazard Class (WGK): WGK 2: water-endangering.

SECTION 13: Disposal considerations
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13.1 Waste treatment methods

General information: Dispose in accordance with all applicable regulations.

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

European Waste Codes

12 01 19*: readily biodegradable machining oil

Product name: PLANTO MIKRO 830 S-CS

SECTION 14: Transport information

ADR/RID

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): —
 - Hazard No. (ADR): —
 - Tunnel restriction code: —
- 14.4 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

ADN

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): —
- 14.3 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

IMDG

- 14.1 UN Number: —
- 14.2 UN Proper Shipping Name: —
- 14.3 Transport Hazard Class(es)
 - Class: Non-dangerous goods
 - Label(s): —
 - EmS No.: —
- 14.3 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

IATA

- 14.1 UN Number: —
- 14.2 Proper Shipping Name: —
- 14.3 Transport Hazard Class(es):
 - Class: Non-dangerous goods
 - Label(s): —
- 14.4 Packing Group: —
- 14.5 Environmental hazards: —
- 14.6 Special precautions for user: —

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: not applicable.

SECTION 15: Regulatory information

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

Product name: PLANTO MIKRO 830 S-CS

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

National Regulations

Water Hazard Class (WGK): WGK 2: water-endangering.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the R-phrases and H-statements in section 2 and 3

H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
R36	Irritating to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.

Training information: Follow training instructions when handling this material.

Other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

Revision Date: 30.03.2015

Product name: PLANTO MIKRO 830 S-CS

Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.