

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: PBC TP492

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

Identified uses: Lubricating grease

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier

FUCHS LUBRITECH GmbH
Werner-Heisenberg-Straße 1
67661 Kaiserslautern/Germany

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Environmental Hazards

Acute hazards to the aquatic environment

Category 1

H400: Very toxic to aquatic life.

Chronic hazards to the aquatic environment

Category 3

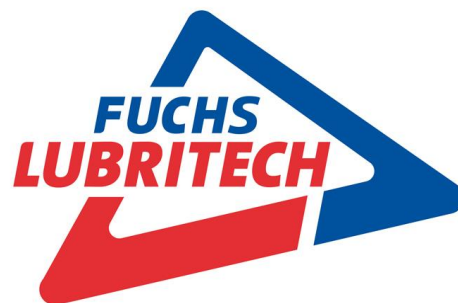
H412: Harmful to aquatic life with long lasting effects.

Hazard summary

Physical Hazards:

No data available.

2.2 Label Elements



Product name: PBC TP492



Signal Words: Warning

Hazard Statement(s): H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement

Prevention: P273: Avoid release to the environment.

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

|| General information: Mixture of the substances listed below with harmless additions.

Chemical name	Identifier	Concentration *	REACH Registration No.	Notes
Copper	EINECS: 231-159-6	10,00 - <25,00%		

* 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.

Classification

Chemical name	Identifier	Classification
Copper	EINECS: 231-159-6	CLP: Acute Tox. 4;H302, Aquatic Chronic 2;H411, Aquatic Acute 1;H400; M-Factor (aquatic acute): 10

CLP: Regulation No. 1272/2008.

For the wording of the listed risk phrases refer to 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 clothing pockets.

4.1 Description of first aid measures

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



Product name: PBC TP492

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 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 surfactant added

Unsuitable extinguishing media: Water with a full water jet.

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.

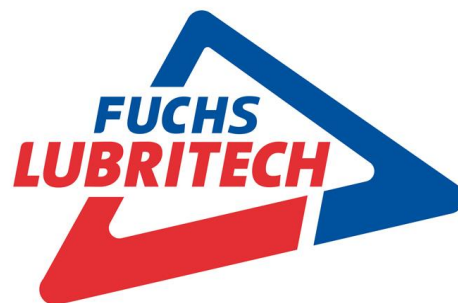
Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Not required.

6.2 Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up: Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.



Product name: PBC TP492

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.

7.3 Specific end use(s):

not applicable

Storage Class:

11, Combustible solids

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	type	Exposure Limit Values	Source
Copper - Respirable fraction.	MAK	0,01 mg/m3	Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG) (2013)
aluminium powder (pyrophoric), aluminium powder (stabilised) - Inhalable fraction.	AGW	10 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (04 2014)
aluminium powder (pyrophoric), aluminium powder (stabilised) - Respirable fraction.	AGW	1,25 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (04 2014)
Festschmierstoff - Respirable fraction.	AGW	1,25 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (04 2014)
Festschmierstoff - Inhalable fraction.	AGW	10 mg/m3	Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace (04 2014)

8.2 Exposure controls

Appropriate engineering controls:

No data available.

Individual protection measures, such as personal protective equipment



Product name: PBC TP492

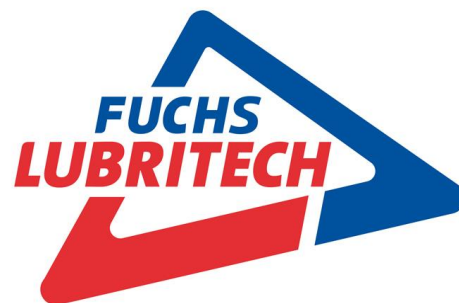
General information:	Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should 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:	Material: Nitrile butyl rubber (NBR). Avoid long-term and repeated skin contact. Protective gloves, where permitted in acc. to safety directions. Suitable gloves can be recommended by the glove supplier. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Use skin protection cream for preventive skin protection.
Other:	Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing.
Respiratory Protection:	Not relevant, due to the form of the product.
Thermal hazards:	Not known.
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:	solid
Color:	Gray
Odor:	Characteristic
Odor Threshold:	Not applicable for mixtures
pH:	not applicable
Melting Point:	Not applicable for mixtures
Boiling Point:	Value not relevant for classification
Flash Point:	> 220 °C
Evaporation Rate:	Not applicable for mixtures
Flammability (solid, gas):	Value not relevant for classification
Flammability Limit - Upper (%)–:	Not applicable for mixtures
Flammability Limit - Lower (%)–:	Not applicable for mixtures
Vapor pressure:	Not applicable for mixtures



Product name: PBC TP492

Vapor density (air=1):	Not applicable for mixtures
Density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not applicable for mixtures
Autoignition Temperature:	Value not relevant for classification
Decomposition Temperature:	Value not relevant for classification
Flow time	Value not relevant for classification
Explosive properties:	Value not relevant for classification
Oxidizing properties:	Value not relevant for classification
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:	None under normal conditions.
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: ATEmix: 4.985,04 mg/kg

Specified substance(s)

Copper No data available.

Dermal

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Copper No data available.



Product name: PBC TP492

Inhalation

Product:

Not classified for acute toxicity based on available data.

Specified substance(s)

Copper

No data available.

Repeated dose toxicity

Product:

No data available.

Specified substance(s)

Copper

No data available.

Skin Corrosion/Irritation:

Product:

No data available.

Specified substance(s)

Copper

No data available.

Serious Eye Damage/Eye Irritation:

Product:

No data available.

Specified substance(s)

Copper

No data available.

Respiratory or Skin Sensitization:

Product:

No data available.

Specified substance(s)

Copper

No data available.

Germ Cell Mutagenicity

In vitro

Product:

No data available.

Specified substance(s)

Copper

No data available.

In vivo

Product:

No data available.

Specified substance(s)

Copper

No data available.

Carcinogenicity

Product:

No data available.

Specified substance(s)

Copper

No data available.

Reproductive toxicity



Product name: PBC TP492

Product: No data available.

Specified substance(s)
Copper No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)
Copper No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)
Copper No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)
Copper 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)
Copper No data available.

Aquatic Invertebrates

Product: No data available.

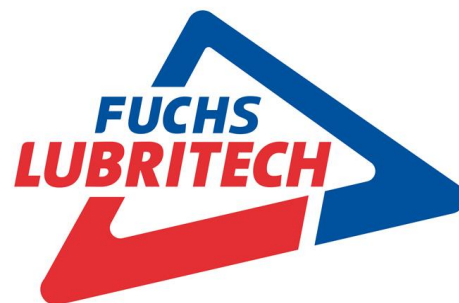
Specified substance(s)
Copper No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)
Copper No data available.



Product name: PBC TP492

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Copper No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Copper No data available.

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Copper No data available.

12.3 Bioaccumulative Potential

Product: No data available.

Specified substance(s)

Copper No data available.

12.4 Mobility in Soil:

No data available.

Known or predicted distribution to environmental compartments

Copper No data available.

12.5 Results of PBT and vPvB assessment:

The product does not contain any substances fulfilling the PBT/vPvB criteria.

12.6 Other Adverse Effects:

Very toxic to aquatic organisms. Harmful to aquatic life with long lasting effects.

Water Hazard Class (WGK):

WGK 1: slightly water-endangering.

SECTION 13: Disposal considerations

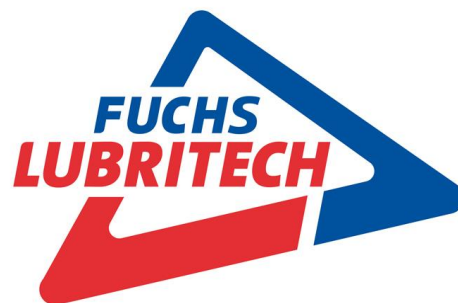
13.1 Waste treatment methods

General information:

Dispose in accordance with all applicable regulations.

Disposal methods:

Discharge, treatment, or disposal may be subject to national, state, or local laws. Do not allow to enter drains, sewers or watercourses.



Product name: PBC TP492

SECTION 14: Transport information

ADR/RID

- | | |
|------------------------------------|--|
| 14.1 UN Number: | UN 3077 |
| 14.2 UN Proper Shipping Name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(copper) |
| 14.3 Transport Hazard Class(es) | |
| Class: | 9 |
| Label(s): | 9 |
| Hazard No. (ADR): | 90 |
| Tunnel restriction code: | (E) |
| 14.4 Packing Group: | III |
| 14.5 Environmental hazards: | Dangerous for the environment |
| 14.6 Special precautions for user: | – |

IMDG

- | | |
|------------------------------------|--|
| 14.1 UN Number: | UN 3077 |
| 14.2 UN Proper Shipping Name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. |
| 14.3 Transport Hazard Class(es) | |
| Class: | 9 |
| Label(s): | 9 |
| EmS No.: | F-A, S-F |
| 14.3 Packing Group: | III |
| 14.5 Environmental hazards: | Dangerous for the environment |
| 14.6 Special precautions for user: | – |

IATA

- | | |
|------------------------------------|--|
| 14.1 UN Number: | UN 3077 |
| 14.2 Proper Shipping Name: | Environmentally hazardous substance, solid, n.o.s. |
| 14.3 Transport Hazard Class(es) | |
| Class: | 9 |
| Label(s): | 9MI |
| 14.4 Packing Group: | III |
| 14.5 Environmental hazards: | Dangerous for the environment |
| 14.6 Special precautions for user: | – |

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

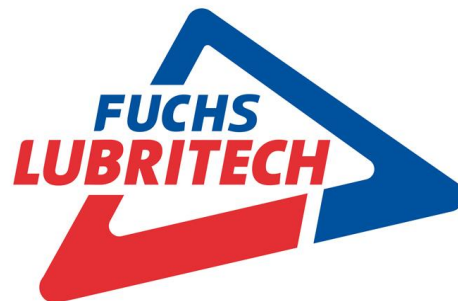
SECTION 15: Regulatory information

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

EU Regulations

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

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



Product name: PBC TP492

National Regulations

Water Hazard Class (WGK): WGK 1: slightly 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 H-statements in section 2 and 3

H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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: 08.12.2015

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.