

## SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

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

1.1 Product identifier

Telephone:

Product name: PBC

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

Identified uses: Lubricant

Uses advised against: No uses advised against identified.

1.3 Details of the supplier of the safety data sheet

Manufacturer / Supplier FUCHS LUBRICANTS (UK) PLC.

New Century Street ST1 5HU Hanley +44 (0) 1782 203700

Contact Person: Product Safety department product.safety@fuchs.com

Telephone: +44 (0) 1782 203700

1.4 Emergency telephone number: UK NHS: Dial 111

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation GB-CLP.

## Classification according to GB-CLP.

### **Environmental Hazards**

Acute hazards to the aquatic Category 1 H400: Very toxic to aquatic life.

environment

Chronic hazards to the aquatic Category 1 H410: Very toxic to aquatic life with long lasting

environment effects.

Hazard summary

Physical Hazards: No data available.

#### 2.2 Label Elements

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Product name: PBC



Signal Words: Warning

**Hazard Statement(s):** H410: Very toxic to aquatic life with long lasting effects.

**Precautionary Statements** 

**Prevention:** P273: Avoid release to the environment.

**Disposal:** P501: Dispose of contents/container to an appropriate treatment and

disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

**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		UK-REACH Regis- tration No.	Notes
Copper flakes (coated with aliphatic acid)	INDEX No.: 029-019-01-X	5,00% - <10,00%		

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Classification

Chemical name	Identifier	Classification	
Copper flakes (coated with aliphatic acid)	INDEX No.: 029-019-01-X		Acute Tox. 3;H331, Acute Tox. 4;H302, Eye Irrit. 2;H319, Aquatic Acute 1;H400, Aquatic Chronic 1;H410; M-Factor (aquatic acute): 10; M-Factor (aquatic chronic): 10

GB-CLP

### **Acute Toxicity Estimate (ATE)**

Chemical name	Identifier	Exposure route		
		oral	dermal	Inhalation
Copper flakes (coated with aliphatic acid)	INDEX No.: 029- 019-01-X	500 mg/kg		

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PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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Please note that the mineral oils and petroleum distillates used in our products are severely refined and have a DMSO extract < 3% as measured by method IP 346 and are not classified as carcinogenic according to Nota L/ Nota N of Annex VI of Regulation GB-CLP.

### **SECTION 4: First aid measures**

General: Instantly remove any clothing soiled by the product.

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.

Ingestion: Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delaved:

No data available.

4.3 Indication of any immediate medical attention and spe-

cial treatment needed

Get medical attention if symptoms occur.

## SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing me-

dia:

CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-

Unsuitable extinguishing

media:

Water with a full water jet.

5.2 Special hazards arising from the substance or mix-

ture:

During fire, gases hazardous to health may be formed.

5.3 Advice for firefighters

Special fire-fighting proce-

dures:

Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official requlations. Collect contaminated fire fighting water separately. It must not enter

drains.

Special protective equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

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#### **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.

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.

6.4 Reference to other sec-

tions:

See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on dis-

posal.

### 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 incompatibili-

ties:

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	Туре	Exposure Limit Values	Source
Copper flakes (coated with aliphatic acid) - Inhalable dusts and mists as Cu	TWA	1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Copper flakes (coated with aliphatic acid) - Inhalable dusts and mists as Cu	STEL	2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
Copper flakes (coated with aliphatic acid) - Fume.	TWA	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)

### 8.2 Exposure controls

Appropriate engineering controls:

Provide adequate ventilation. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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Individual protection measures, such as personal protective equipment

**General information:** Wash hands before breaks and after work. Use personal protective equip-

ment 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 ad-

hered to inhandling the chemicals or the mineral oil products.

**Eye/face protection:** Avoid contact with skin and eyes. Goggles/face shield are recommended. If

risk of splashing, wear safety goggles or face shield.

**Skin protection** 

Hand Protection: Avoid long-term and repeated skin contact. It is a good industrial hygiene

practice to minimize skin contact.

Other: Do not carry cleaning cloths impregnated with the product in trouser pock-

ets. Wear suitable protective clothing.

**Respiratory Protection:** Ensure good ventilation/exhaustion at the workplace. Avoid breathing va-

pour/ aerosol.

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 foot-

wear 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 Form: Paste

Color:Pale yellow-orangeOdor:No data available.

**pH:** substance/mixture is non-soluble (in water)

Drop Point:not determinedBoiling Point:not determinedFlash Point:Not applicable

**Evaporation Rate:** Not applicable for mixtures

Flammability (solid, gas): not determined

Explosion Limit - Upper (%):

Not applicable for mixtures

Solubility(ies)

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Solubility in Water: Insoluble in water
Solubility (other): No data available.

Partition coefficient (n-octanol/water): Not applicable for mixtures

Auto-ignition temperature:not determinedDecomposition Temperature:not determined

Flow time Value not relevant for classification

Explosive properties: Value not relevant for classification

Oxidizing properties: Value not relevant for classification

Particle characteristics: Study technically not feasible

**9.2 Other information** No data available.

**SECTION 10: Stability and reactivity** 

**10.1 Reactivity:** Stable under normal use conditions.

**10.2 Chemical Stability:** Stable under normal use conditions.

10.3 Possibility of hazardous

reactions:

Stable under normal use conditions.

**10.4 Conditions to avoid:** Stable under normal use conditions.

**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 oth-

er toxic gases or vapors.

#### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### **Acute toxicity**

Oral

**Product:** ATEmix: 10.000 mg/kg

Dermal

**Product:** Not classified for acute toxicity based on available data.

Inhalation

**Product:** ATEmix: 10,2 mg/l

Skin Corrosion/Irritation:

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

Serious Eye Damage/Eye Irritation:

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

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Respiratory or Skin Sensitization:

**Product:** Skin sensitizer: Based on available data, the classification criteria are not

met.

Respiratory sensitizer: Based on available data, the classification criteria

are not met.

**Germ Cell Mutagenicity** 

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

Carcinogenicity

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

Reproductive toxicity

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

**Specific Target Organ Toxicity - Single Exposure** 

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

**Specific Target Organ Toxicity - Repeated Exposure** 

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

**Aspiration Hazard** 

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

Other adverse effects: No data available.

## **SECTION 12: Ecological information**

General information: Not applicable Not applicable

12.1 Toxicity

Acute toxicity

**Product:** Based on available data, the classification criteria are met.

**Chronic Toxicity** 

**Product:** Based on available data, the classification criteria are met.

12.2 Persistence and Degradability

**Biodegradation** 

**Product:** Not applicable for mixtures

12.3 Bioaccumulative potential

**Product:** Not applicable for mixtures

12.4 Mobility in soil:

**Product:** Not applicable for mixtures

**12.5 Results of PBT and vPvB** The product does not contain any substances fulfilling the PBT/vPvB criteria.

assessment:

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12.6 Other adverse effects: Very toxic to aquatic organisms. Toxic to aquatic life with long lasting ef-

fects

**Water Hazard Class** 

(WGK):

WGK 3: severely 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.

## **SECTION 14: Transport information**

ADR/RID

14.1 UN number or ID number: UN 3077

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.(Copper flakes (coated with aliphatic acid))

14.3 Transport Hazard Class(es)

Class: 9 Label(s): 9 Hazard No. (ADR): 90 Tunnel restriction code: (-)14.4 Packing Group: Ш

14.5 Environmental hazards: Dangerous for the environment

14.6 Special precautions for user:

**IMDG** 

14.1 UN number or ID number: UN 3077

14.2 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.(Copper flakes (coated with aliphatic acid))

14.3 Transport Hazard Class(es)

9 Class: Label(s): 9 EmS No.: F-A, S-F

14.3 Packing Group:

14.5 Environmental hazards: Marine pollutant

14.6 Special precautions for user:

IATA

**UN 3077** 14.1 UN number or ID number:

Environmentally hazardous substance, solid, n.o.s.(Copper flakes 14.2 Proper Shipping Name:

(coated with aliphatic acid))

14.3 Transport Hazard Class(es):

Class: 9 Label(s): 9MI 14.4 Packing Group: Ш

14.5 Environmental hazards: Dangerous for the environment

14.6 Special precautions for user:

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Amounts up to 5kg or 5 L are not regulated, (ADR/RID SP 375, IMDG 2.10.2.7, IATA SP A197)

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

### **SECTION 15: Regulatory information**

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

**GB** Regulations

The Ozone-Depleting Substances and Fluorinated Greenhouse Gases (Amendment etc.) (EU Exit) Regulations 2019:

none

The Persistent Organic Pollutants (Amendment) (EU Exit) Regulations 2020:

none

15.2 Chemical safety as-

sessment:

No Chemical Safety Assessment has been carried out.

## **DIRECTIVE Control of Major Accident Hazards Regulations 2015:**

Hazard category in accordance with GB-CLP	Qualifying quantity for the application of Lower-tier requirements:	Qualifying quantity for the application of Upper-tier requirements:
E1: E1. Hazardous to the aquatic environment	100 t	200 t

### **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.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Other information: The classification complies with the current GB lists; however, it has been

supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: On the basis of test data; Calculation Method; Bridging Principle "Substantially simi-

lar mixtures"; Expert Judgement

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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.

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