

Claytac Paste 162 Cu25

Revision date 21-Feb-2018

Supersedes date 20-Nov-2017

Version 4

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Claytac Paste 162 Cu25 - 867581

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

Recommended use Lubricating grease only for industrial use

1.3. Details of the supplier of the safety data sheet

Rubix Engineering

31, Rue de la Baume

75008 PARIS, France

Tel : +33 (0)1.44.86.08.10

infoclient@giss.fr

1.4. Emergency telephone number

Emergency telephone - §45 - (EC)1272/2008	
Europe	112
France	ORFILA : + 33 (0) 1 45 42 59 59

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Symbols/Pictograms**Signal word**

WARNING

Hazard statements

H302 - Harmful if swallowed
 H332 - Harmful if inhaled
 H319 - Causes serious eye irritation
 H400 - Very toxic to aquatic life
 H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P337 + P313 - If eye irritation persists: Get medical advice/attention
 P273 - Avoid release to the environment
 P391 - Collect spillage
 P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**Mixtures**

Chemical name	EC No	CAS No	weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Copper flakes	231-159-6	7440-50-8	<25	Acute Tox. 3 (H331) Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400), M-factor 10 Aquatic Chronic 1 (H410), M-factor 1	01-2119480154-42

Ingredient comments

This product is a clay thickened lubricating grease based on mineral oil with additives. The mineral oils in the product contain <3% DMSO-extract (IP 346).

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES**4.1. Description of first aid measures****General advice**

If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do

not get in eyes, on skin, or on clothing.

Inhalation

Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is not required. If skin irritation persists, call a physician.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

Ingestion

If symptoms persist, call a physician. Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

Self-protection of the first aider

Use personal protective equipment as required.

4.2. Most important symptoms and effects, both acute and delayed Most important symptoms and effects, both acute and delayed**Symptoms**

None known.

4.3. Indication of any immediate medical attention and special treatment needed**Note to physicians**

Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media**Suitable extinguishing media**

Use CO₂, dry chemical, or foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Not flammable. Fire may produce irritating and/or toxic gases.

5.3. Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

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

Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

For emergency responders

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

6.4. Reference to other sections**Other information**

See Section 12: ECOLOGICAL INFORMATION.

Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling****Advice on safe handling**

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

General hygiene considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

7.2. Conditions for safe storage, including any incompatibilities**Storage conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep at a temperature not exceeding 45°C. Keep away from heat, sparks and open flame. Keep out of the reach of children.

7.3. Specific end use(s)**Risk management methods**

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Chemical name	European Union	United Kingdom	France	Spain	Germany
Copper flakes 7440-50-8	-	STEL: 0.6 mg/m ³ STEL: 2 mg/m ³ TWA: 1 mg/m ³ TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 2 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.01 mg/m ³ Ceiling / Peak: 0.02 mg/m ³ Ceiling / Peak: 0.2 mg/m ³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Copper flakes 7440-50-8	-	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³	TWA: 0.1 mg/m ³	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	TWA: 1.0 mg/m ³ TWA: 0.1 mg/m ³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Copper flakes 7440-50-8	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	STEL: 0.2 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.1 mg/m ³ TWA: 1 mg/m ³ STEL: 0.1 mg/m ³ STEL: 1 mg/m ³	TWA: 0.2 mg/m ³ TWA: 1 mg/m ³ STEL: 0.6 mg/m ³ STEL: 2 mg/m ³

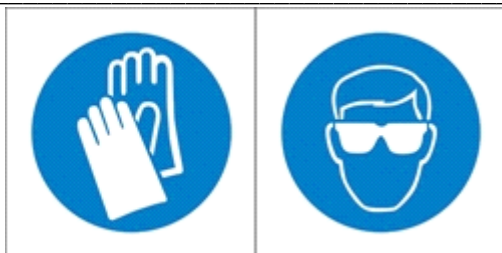
Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls None under normal processing.

Personal protective equipment

**Hand protection**

Wear protective nitrile rubber gloves. Thickness ≥ 0.38 mm - breakthrough time >480 minutes. Thickness 0.1 mm - splash protection. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Conform EN 374-2 and EN 347-3.

Eye/face Protection

Wear safety glasses with side shields (or goggles).

Body protection

Suitable protective clothing, Apron, Gloves made of plastic or rubber.

Respiratory protection

None under normal processing. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

General hygiene considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Environmental exposure controls

Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Semi-solid
Appearance	Smooth
Color	copper
Odor threshold	No information available
Explosive properties	No information available
Oxidizing properties	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point/freezing point		No information available
Boiling point/boiling range		Not applicable
Flash point	> 150 °C / > 302 °F	Based on base oils
Evaporation rate		Not applicable
Flammability (solid, gas)		No information available
Flammability limits in air		No information available
Vapor pressure		Not applicable
Vapor Density		Not applicable
Specific gravity		No information available
Solubility(ies)		No information available
Partition coefficient (n-octanol/water)		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Kinematic viscosity		No information available
Dynamic viscosity		No information available

9.2. Other information

Density	No information available
----------------	--------------------------

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

None under normal processing.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity	.
Skin corrosion/irritation	Not hazardous based on component data.
Serious eye damage/eye irritation	Irritating to eyes.
Sensitization	Not hazardous based on component data.
Germ cell mutagenicity	Not hazardous based on component data.
Carcinogenicity	Not hazardous based on component data.
Reproductive toxicity	Not hazardous based on component data.
STOT-single exposure	Not hazardous based on component data.
STOT-repeated exposure	Not hazardous based on component data.
Aspiration hazard	Not hazardous based on component data.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50	1840 mg/kg
Dermal LD50	6631 mg/kg
Mist	2,2 mg/l

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation	Inhalation of oil mist may cause irritation, headaches, nausea and breathing difficulties.
Eye contact	Irritating to eyes.
Skin contact	Prolonged contact may cause redness and irritation.

Ingestion Malaise (vague feeling of discomfort).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

Material does not bioaccumulate.

12.4. Mobility in soil

Mobility in soil

After release, adsorbs onto soil.

Mobility

Insoluble in water.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

No information available

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging Dispose of in accordance with federal, state and local regulations.

Waste codes / waste designations according to LoW / AVV 13 08 99*

Other information Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: TRANSPORT INFORMATION

14.1. UN number

3077

14.2. UN proper shipping name

Environmentally hazardous substances, solid, n.o.s.

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

14.6. Special precautions for user

None

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

Section 15: REGULATORY INFORMATION

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

Water hazard class (WGK) Hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
DSL/NDSL	Complies
PICCS	Complies
ENCS	Complies
IECSC	Complies
AICS	Complies
KECL	Complies
NZIoC	Complies

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

No information available

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under section 3

H331 - Toxic if inhaled

H302 - Harmful if swallowed

H319 - Causes serious eye irritation

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Key or legend to abbreviations and acronyms used in the safety data sheet

EC European Commission

CLP Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008]

GHS Globally Harmonised System of Classification and Labelling of Chemicals

EEC European Economic Community

EUH statement = CLP-specific Hazard statement

CAS Chemical Abstracts Service

REACH Registration, Evaluation and Authorization of CHemicals

LD50 Median Lethal Dose for 50% of subjects

WGK Wassergefährdungsklasse

ADR Accord européen relatif au transport international de marchandises Dangereuses par Route

RID Règlement concernant le transport international ferroviaire des marchandises dangereuses

IMDG International Maritime Dangerous Goods Code

IATA International Air Transport Association

Revision date 21-Feb-2018**Revision note** SDS sections updated, 2, 3, 4, 6, 7, 8, 11, 13, 16.**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****End of Safety Data Sheet**