Safety Data Sheet

Regulation EC No 1907/2006 Art.31

| Productname : | COPPER PASTE | Creationdate : | 09.10.17 Version : 2.0 |
|---------------|---------------------------|----------------|------------------------|
| Ref.Nr.: | BDS001991_3_20171009 (EN) | Replaces: | BDS001991_20170629 |

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

1.1. Product identifier

COPPER PASTE Bulk

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

Lubricants

1.3. Details of the supplier of the safety data sheet

CRC Industries Europe bvba Touwslagerstraat 1 9240 Zele Belgium Tel.: +32(0)52/45.60.11 Fax.: +32(0)52/45.00.34 E-mail : hse@crcind.com

| Subsidiaries | | Tel | Fax |
|------------------------------------|---------------------------------------------------------------------------|----------------------|------------------|
| CRC Industries Finland Oy | Laurinkatu 57 A 23 B, 08100 Lohja | +358/(19)32.921 | |
| CRC Industries France | 6, avenue du marais, C.S. 90028, 95102 Argenteuil Cedex | 01.34.11.20.00 | 01.34.11.09.96 |
| CRC Industries Deutschland GmbH | Südring 9, D-76473 Iffezheim | (07229) 303 0 | (07229)30 32 66 |
| CRC INDUSTRIES IBERIA S.L.U. | GREMIO DEL CUERO-PARC.96, POLIGONO INDUSTR. DE HONTORIA, 40195 SEGOVIA | 0034/921.427.546 | 0034/921.436.270 |
| CRC Industries Sweden | Laxfiskevägen 16, 433 38 Partille | 0046/31 706 84 80 | 0046/31 27 39 91 |

1.4. Emergency telephone number

CRC Industries Europe, Belgium: Tel.: +32(0)52/45.60.11 (office hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Physical:Not classifiedClassification is based on test data.Health:Not classifiedClassification based on calculation method.



CRC Industries Europe bvba Touwslagerstraat 1, 9240 Zele – Belgium Tel (+32) (0) 52 / 45 60 11 – Fax (+32) (0) 52 / 45 00 34 – www.crcind.com

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| Environment: | Not classified |
|---------------------------------|-----------------------------------|
| Classification is based on test | data. |
| Other hazards : | Contains: |
| | C14-16-18 alkyl phenol |
| | May produce an allergic reaction. |
| Other hazards : | Not classified |

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

| None Precautionary statement(s): | P102 : Keep out of reach of children. |
|-------------------------------------|-----------------------------------------------------------------------------------|
| | P280 : Wear protective gloves/protective clothing/eye protection/face protection. |
| | P333/313 : If skin irritation or rash occurs: Get medical advice/attention. |
| Supplemental Hazard information: | Contains: |
| | C14-16-18 alkyl phenol |
| | May produce an allergic reaction. |

2.3. Other hazards

No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Mineral oil (IP 346 DSMO extract < 3%) based product.

| Hazardous ingredient | Registration number | CAS-nr. | | w/w % | Hazard Class and Category | Hazard statement | Notes |
|---------------------------|-----------------------|---------------|---------------|----------|--------------------------------------------------|---------------------|-------|
| Copper | 01-2119480154-42 | 7440-50- 8 | 231-159- 6 | <25 | Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 2 | H302,H400,H411 | B,M |
| C14-16-18 alkyl phenol | 01-2119498288-19 | - | 931-468- 2 | <1 | Skin Sens. 1, STOT RE 2 | H317,H373 | |
| Explanation notes | | | | | | | |
| B : substance with na | tional established wo | rkplace exp | oosure limi | t | | | |
| M : M acute = 10 | | | | | | | |
| (* Explanation phi | rases : see chapt | er 16) | | | | | |

SECTION 4: First aid measures

4.1. Description of first aid measures



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| Contact with eyes : | If substance has got into eyes, immediately wash out with plenty of water for several minutes Seek medical attention if irritation persists |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Contact with skin : | Wash with water and soap. Seek medical attention if irritation persists |
| Inhalation : | Fresh air, keep warm and at rest. Seek medical attention if ill effects occur |
| Ingestion : | If swallowed do not induce vomiting Seek medical advice |

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

| Inhalation : | Inhalation of solvent vapours may give rise to nausea, headaches and dizziness |
|----------------|-------------------------------------------------------------------------------------------|
| Ingestion : | May cause gastrointestinal disturbances |
| Skin contact : | May produce an allergic reaction. May cause irritation. Symptoms : redness and pain |
| Eye contact : | May cause irritation. Symptoms : redness and pain |

4.3. Indication of any immediate medical attention and special treatment needed

| General Advice : | If you feel unwell, seek medical advice (show the label where possible |
|------------------|------------------------------------------------------------------------|
| | If symptoms persist always call a doctor |

SECTION 5: Firefighting measures

5.1. Extinguishing media

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foam, carbon dioxide or dry agent

5.2. Special hazards arising from the substance or mixture

Forms hazardous decomposition products CO,CO2

5.3. Advice for firefighters

Keep container(s) exposed to fire cool, by spraying with water In case of fire, do not breathe fumes

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Shut off all ignition sources Ensure adequate ventilation



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Wear suitable protective clothing including eye/face protection.

6.2. Environmental precautions

Do not allow to enter public sewers and watercourses If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities

6.3. Methods and material for containment and cleaning up

Absorb spillage in suitable inert material

6.4. Reference to other sections

For further information see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Use only in well ventilated areas Avoid contact with skin and eyes. Wash thoroughly after use Wear protective gloves/protective clothing/eye protection/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated place Keep out of reach of children.

7.3. Specific end use(s)

Lubricants

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits :

| Hazardous ingredient | CAS-nr. | method | |
|------------------------------------------------------|-----------|--------|----------------|
| National established exposure limits, United Kingdom | | | |
| Copper | 7440-50-8 | TWA | 1 mg/m3 (dust) |
| | | STEL | 2 mg/m3 (dust) |

8.2. Exposure controls

Control procedures : Ensure adequate ventilation



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| | | | | |

| Personal protection : | Take precautions to avoid contact with skin and eyes when handling the product. It is good practice to wear gloves and to provide adequate ventilation whenever using the product. In all cases handle and use the product in accordance with good industrial hygiene practices. |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| inhalation : | In case of insufficient ventilation, wear suitable respiratory equipment. |
| hands and skin : | For accidental contact the use of disposable gloves should be sufficient provided they are changed immediately after a splash or spill may occur. If intentional contact is expected reusable gloves should be used with a breakthrough time greater than the total duration of the product use. |
| Recommended gloves: | Nitrile |
| eyes : | Wear safety eyewear according to EN 166. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Apperance : physical state : | Paste. |
|----------------------------------|----------------------|
| colour : | Copper. |
| odour : | Characteristic odor. |
| рН : | Not applicable. |
| Boiling point/range : | Not available. |
| Flash point : | > 250 °C |
| Evaporation rate : | Not available. |
| Explosion limits : upper limit : | Not available. |
| lower limit : | Not available. |
| Vapour pressure : | Not available. |
| Relative density : | 0.99 g/cm3 (@ 20°C). |
| Solubility in water : | Insoluble in water |
| Auto-ignition : | > 200 °C |
| Viscosity : | Not available. |

9.2. Other information

VOC = volatile organic compounds

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions



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No hazardous reactions known if used for its intended purpose

10.4. Conditions to avoid

Avoid overheating

10.5. Incompatible materials

Strong oxidising agent

10.6. Hazardous decomposition products

CO,CO2

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| acute toxicity: | based on available data the classification criteria are not met |
|---------------------------------------|-----------------------------------------------------------------|
| skin corrosion/irritation: | based on available data the classification criteria are not met |
| serious eye damage/irritation: | based on available data the classification criteria are not met |
| respiratory or skin sensitisation: | based on available data the classification criteria are not met |
| germ cell mutagenicity: | based on available data the classification criteria are not met |
| carcinogenicity: | based on available data the classification criteria are not met |
| toxicity for reproduction: | based on available data the classification criteria are not met |
| STOT-single exposure: | based on available data the classification criteria are not met |
| STOT repeated exposure: | based on available data the classification criteria are not met |
| aspiration hazard: | based on available data the classification criteria are not met |

Information on likely routes of exposure:

| Inhalation : | Inhalation of solvent vapours may give rise to nausea, headaches and dizziness |
|----------------|--------------------------------------------------------------------------------|
| Ingestion : | May cause gastrointestinal disturbances |
| Skin contact : | May cause irritation. |
| | May produce an allergic reaction. |
| Eye contact : | May cause irritation. |

Toxicological data :

No information available

SECTION 12: Ecological information

12.1. Toxicity



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Not classified

Ecotoxicological data:

LC50 (fish) > 100 mg/l (96 hr) EC50 (Daphnia magna) > 100 mg/l (48 hr) EC50 (algae) > 100 mg/l (72 hr)

12.2. Persistence and degradability

No experimental data available

12.3. Bioaccumulative potential

No experimental data available

12.4. Mobility in soil

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

| Product : | This material and its container must be disposed of in a safe way. |
|------------------------|----------------------------------------------------------------------------|
| | Do not discharge into drains or the environment, dispose to an authorised |
| | waste collection point. |
| National regulations : | Disposal should be in accordance with local, state or national legislation |

SECTION 14: Transport information

14.1. UN number

UN-number : Not classified as hazardous for transport

14.2. UN proper shipping name

Proper shipping name: Not applicable.



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14.3. Transport hazard class(es)

| Class: | Not applicable. |
|--------------------------------|-----------------|
| ADR/RID - Classification code: | Not applicable. |

14.4. Packing group

Packing group: Not applicable.

14.5. Environmental hazards

| ADR/RID - Environmentally | No |
|-----------------------------|-----|
| hazardous: | NO |
| IMDG - Marine pollutant: | No |
| IATA/ICAO - Environmentally | No |
| hazardous: | INO |

14.6. Special precautions for user

IMDG - Ems:

Not applicable.

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

The Safety Data Sheet is compiled according to the current European requirements. Regulation (EC) No 1907/2006 (REACH) Regulation (EC) No 1272/2008 (CLP)

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

| *Explanation hazard statements: | H302 : Harmful if swallowed. H317 : May cause an allergic skin reaction. H373 : May cause damage to organs through prolonged or repeated exposure . H400 : Very toxic to aquatic life. H411 : Toxic to aquatic life with long lasting effects. |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REVISIONS IN CHAPTRE : | Classification according to Regulation (EC) No 1272/2008 Labelling according to Regulation (EC) No 1272/2008 8.2. Exposure controls 14.1. UN number |



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| | 14.3. Transport hazard class(es) |
|------------------------|--------------------------------------------|
| acronyms and synonyms: | TWA = time weight average |
| | STEL = short time exposure limit |
| | VOC = volatile organic compounds |
| | PBT = persistant bioaccumulative toxic |
| | vPvB = very persitant very bioaccumulative |

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation.

The information contained herewith is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It does not guarantee any specific properties. Apart from any fair dealing for purposes of study, research and review of health, safety and environmental risks, no part of these documents may be reproduced by any process without written permission from CRC.



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