

FLINT HIRE & SUPPLY LTD
PRODUCT SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation

Bronze Flake Powder – Coarse Grades, Non Hazardous

1.2 Use of the substance/preparation

Inorganic (Metallic) Pigment

1.3 Company/undertaking identification

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1.4 Emergency Contact Information

020 7703 9786

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2. HAZARDS IDENTIFICATION

Hazard Description : Not applicable

*Information concerning particular hazards
for human and environment* : Not applicable

Classification System is according to latest editions of EU lists and is extended by company and literature data.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Description of Material : Copper Zinc Alloy

3.2 Hazardous Ingredients : Not applicable

For wording of the listed phrases refer to point 16

4. FIRST AID MEASURES

| | |
|------------------------|--|
| <i>General Advice:</i> | Take affected persons out of danger area and lay down |
| <i>Inhalation:</i> | Supply fresh air, consult doctor in case of complaints. |
| <i>Skin contact:</i> | Wash with mild soap and water. Generally the product does not irritate the skin. |
| <i>Eye Contact:</i> | Rinse opened eye for several minutes under running water. |
| <i>Ingestion:</i> | Do not induce vomiting, seek medical attention |

5. FIRE FIGHTING MEASURES

| | |
|---|---|
| <i>Suitable Extinguishing Media:</i> | Dry sand. Special Powder for metal fires. Fire Blanket, Do not use water! |
| <i>Extinguishing Media not suitable for safety reasons:</i> | Water, CO ₂ , Foam. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------------|--|
| <i>Personal precautions:</i> | Wear protective equipment (as described in point 8.) Keep unprotected persons away. Avoid formation of dust. Keep away from ignition sources. |
| <i>Environmental precautions:</i> | Do not allow product to reach ground water, water bodies or sewerage system. |
| <i>Methods for cleaning up:</i> | Pick up manually or vacuum cleaner may be used to pick up coarse grades |

7. HANDLING AND STORAGE

7.1 Handling

Store in a cool dry place in tightly closed containers.
Prevent formation of dust.
Any unavoidable deposits of dust must be regularly removed.
Keep away from sources of ignition. No smoking.

7.2 Storage

Store away from flammable substances
Store away from oxidising agents
Protect from water and humidity
Store in a cool dry place in tightly closed containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values:

| | |
|---|----------------------------|
| OES Copper/zinc alloy: | n/a |
| OES (Copper): <i>Average daily value:</i> | 1 mg/m ³ (dust) |
| Short term value | 2mg/ m ³ (dust) |

(Ref: EH40/2005 as consolidated with amendments Oct 2007.)

National exposure control limits must be considered where appropriate.

8.2 Personal Protection

Respiratory protection: Cartridge filter type P 1.

Hand Protection: Gloves: consult manufacturer for suitable specification
A suitable barrier cream is recommended.

Eye Protection: Tight safety goggles.

Body Protection: Protective work clothing

General Safety and Hygiene measures: Do not eat, drink smoke or sniff while working.
Keep product away from foodstuffs or feed.
Wash hands before breaks and at the end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

| | | |
|-------------------|---|----------------------|
| <i>Appearance</i> | : | Gold coloured powder |
| <i>Odour</i> | : | Characteristic |

9.2 Important health, safety and environmental information

| | | |
|----------------------|---|---|
| pH: | : | n/a |
| Melting Point | : | 900 °C |
| Flash Point | : | n/a |
| Flammability | : | n/d/a |
| Autoflammability | : | Not self igniting |
| Explosive Properties | : | Product does not present an explosion hazard. |
| Explosion limit | : | n/a |
| Oxidising Properties | : | n/a |
| Vapour Pressure | : | n/a |
| Density | : | 7-8.9g/cm ³ |
| Solubility in Water | : | Insoluble |

9.3 Other Information

| | | |
|------------------|---|--------------------------|
| Boiling point | : | Undetermined |
| Apparent Density | : | 0.6-1.4g/cm ³ |

10. STABILITY AND REACTIVITY

No decomposition if used according to specifications.

10.1 Conditions to Avoid

Avoid direct sunlight and building of sparks.
Keep away from sources of ignition and naked flame.

10.2 Materials to Avoid

No dangerous reactions known, refer to storage conditions point 7.

10.3 Hazardous Decomposition Products:

No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

| | | |
|-------------------------------|---|---|
| Oral toxicity | : | n/d/a |
| Inhalative toxicity | : | n/d/a |
| Dermatological toxicity | : | n/d/a |
| Irritation, sensitisation | : | On skin: No irritant effect On eye: No irritant effect No sensitizing effect known. |
| Subacute to chronic toxicity: | | No effects known |

12. ECOLOGICAL INFORMATION

Ecotoxicity: Generally not hazardous for water, high concentrations of copper/zinc could damage water organism. Do not allow to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

Product: Must not be disposed of with general waste.
Do not allow to reach sewerage.

European waste catalogue: 12 01 04 non ferrous metal dust and particles.

Used packaging material: May be disposed of as metal waste. Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION:

Land Transport ADR/RID (cross border)

ADR/RID : Not applicable

Maritime Transport IMDG:

IMDG Class : Not applicable

Marine Pollutant : No

Air Transport ICAO/IATA-DGR:

ICAO/IATA Class : Not applicable.

Additional information : Not classified as hazardous for transport.

15. REGULATORY INFORMATION

Labelling according to EEC Directives:

| | |
|---|---|
| <i>Danger symbol:</i> | Non hazardous |
| <i>R-phrases:</i> | not applicable |
| <i>S-phrases:</i> | Not applicable |
| <i>Regulatory information To take into consideration:</i> | Product is not subject to identification regulations under EU Directives and the ordinance of hazardous materials (German GefStoffv). |

16. OTHER INFORMATION

Products covered by this data sheet include:

Rich, Rich Pale and Pale Standard
Rich, Rich Pale and Pale Fine
Rich, Rich Pale and Pale Lining
Standard, Fine and Lining grades of Oxidised shades
Tarnish Resist grades with d50 of >10µm
(This list is not exhaustive)

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Abbreviations used: n/a - not applicable, n/d/a – no data available.
OES – Occupational exposure standard.

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date compiled. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.