



Material Safety Data Sheet

PEARLESCENT COPPER RED

Date: September 2013

1. Product and Supplier Description

Trade Name: Pearlescent Copper Red

INCI Name: Mica, CI 77491

INCI Breakdown: MICA 74 - 83%, C.I. 77491 17 - 26%

REACH Name: This product is a mixture. See section 3.

Supplier:

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1.1 Identified uses: Cosmetic raw materials.

2. Hazards Identification

2.1 Classification of the substance or mixture.

This substance is not classified as dangerous according to European Union Legislation.

2.2 Label element

Labelling (Regulation (EC) No 1272/2008)

Precautionary statements.

P260 Do not breathe dust.

Labelling (67/548/EEC or 1999/45/EC)

S-phrases(s) 22 Do not breathe dust.

2.3 Other hazards

None known.

3. Composition and Ingredient Information

Chemical nature: Mica coated with: ferric oxide.

MICA 74 - 83%, C.I. 77491 17 - 26%

For full text of the H-Statements mentioned in this Section, see Section 16.

Remarks: No dangerous ingredients according to Regulation (EC) No. 1907/2006.

4. First Aid Measures

4.1 Description of first aid measures.

After inhalation (large amount of dusts): Fresh air. Consult doctor in the event of any complaints.

After skin contact: Wash off with plenty of water. Remove contaminated clothing.

After eye contact: Rinse out with plenty of water.

After swallowing (large amounts): Consult doctor if feeling unwell.

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

We have no description of any toxic symptoms.

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

No information available.

5. Fire Fighting Measures

5.1 Extinguishing media.

Suitable extinguishing media.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media.

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture.

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters.

Special protective equipment for firefighters.

In event of fire, wear self-contained breathing apparatus.

6. Measures in case of accidental release

6.1 Personal precautions, protective equipment and emergency procedures.

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions.

No special precautionary measures necessary.

6.3 Methods and materials for containment and cleaning up.

Observe possible material restrictions (see section 7.2 and 10.5).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections.

Indications about waste treatment see section 13.

7. Handling and Storage

7.1 Precaution for safe handling.

Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities.

Tightly closed. Dry.

Storage temperature: no restrictions.

7.3 Specific end uses.

Apart from the uses mentioned in section 1.1 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

8.1 Control parameters.

Components with workplace control parameters.

Components

Basis	Value	Threshold Limits	Remarks
Mica (muscovite) (12001-26-2)			
EH40 WEL	Time Weighted Average (TWA):	0,8mg/m ³	Form of exposure: Respirable.
	Time Weighted Average (TWA):	10 mg/m ³	Form of exposure: Inhalable.
Iron (III) oxide (1309-37-1)			
EH40 WEL	Short term Exposure Limit (STEL):	10 mg/m ³	Form of exposure: Fume. Expressed as: as Fe.
	Time Weighted Average (TWA):	5 mg/m ³	Form of exposure: Fume. Expressed as: as Fe.
	Time Weighted Average (TWA):	10 mg/m ³	Form of exposure: Inhalable.
	Time Weighted Average (TWA):	4 mg/m ³	Form of exposure: Respirable.
General threshold limit value for dust			
EH40 WEL	Time Weighted Average (TWA):	4 mg/m ³	Form of exposure: Respirable dust.
	Time Weighted Average (TWA):	10 mg/m ³	Form of exposure: Inhalable dust.

Recommended monitoring procedures.

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

8.2 Exposure controls.

Engineering measures.

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1

Individual protection measures.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Hygiene measures.

Wash hands before breaks and at the end of workday.

Eye/face protection.

Safety glasses.

Hand protection.

Not required.

Respiratory protection.

Required when dusts are generated.

Recommended filter type: Filter P 1 (acc. To DIN 3181) for solid particles of inert substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties.

Form: Powder.

Colour: Copper.

Odour: Odourless.

Odour Threshold: No information available.

pH: 6.0- 10.0 at 100g/l 20°C (slurry)

Melting point: No information available.

Boiling point: No information available.

Flash point: Not applicable.

Evaporation rate: No information available.

Flammability (solid, gas): No information available.

Lower explosion limit: No information available.

Upper explosion limit: No information available.

Vapour pressure: No information available.

Relative vapour density: No information available.

Relative density: 3.0 – 3,2 g/cm³ at 20°C.

Water solubility: at 20°C practically insoluble.

Partition coefficient: n-octanol/water: No information available.

Autoignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic: No information available.

Explosive properties: No information available.

Oxidizing properties: No information available.

9.2 Other data.

Bulk density: 210 -250 kg/m³

Particle size: Particle size 10,0 – 150,0 µm
Mean particle size 65,0 – 82,0 µm

10. Stability and Reactivity

10.1 Reactivity.

See section 10.3.

10.2 Chemical stability.

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions.

No information available.

10.4 Conditions to avoid.

Not known to date.

10.5 Incompatible materials.

No information available.

10.6 Hazardous decomposition products.

No information available.

11. Toxicological Information

11.1 Information on toxicological effects.

Specific target organ toxicity – single exposure.

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity – repeated exposure.

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard.

Based on available data the classification criteria are not met.

11.2 Further information.

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no hazardous properties are to be anticipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions. The individual test results were as follows: skin tolerance (rabbit): no irritant

effect; eye irritation test (rabbit): no irritant effect; sensitisation test (guinea pig): no sensitising potential. LD₅₀ (oral, rat): not determinable; all animals still alive after 15, 000 mg/kg
Subchronic toxicity (rat): no appreciable findings up to 50 000ppm.
Chronic toxicity (rat): 5 % of the product added to the feed for a period of 2.5 years did not show any toxicological changes or carcinogenic effects in animals.
LC₅₀ (inhalation, rat): male animals: between 4.6 and 14.9 mg/l air; female animals: >14.9 mg/l air.
The product did not show any genotoxic effects in the micronucleus test carried out in rats in concentrations of up to 2000 mg/kg (limit test).

12. Ecological Information

12.1 Toxicity.

No information available.

12.2 Persistence and degradability.

No information available.

12.3 Bioaccumulative potential.

No information available.

12.4 Mobility in soil.

No information available.

12.5 Results of PBT and vPvB assessment.

PBT /vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects.

Additional ecological information.

No ecological problems are to be expected when the product is handled and used with due care and attention.

13. Disposal Considerations

Waste treatment methods.

Waste materials must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the products itself.

14. Transport Information

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory Information

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

EU regulations.

Major Accident Hazard Legislation: 96/82/EC

Directive 96/82/EC does not apply.

National legislation.

Storage class 10 – 13.

15.2 Chemical Safety Assessment.

For this product a chemical safety assessment was not carried out.

16. Other Information

Training advice.

Provide adequate information, instruction and training for operators.

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

Used abbreviations and acronyms can be looked up at www.wikipedia.org .

The information contained herein is accurate to the best of our knowledge from a variety of sources. No liability can be accepted arising out of the use, application or processing of this product. It is the users' responsibility to determine the safe conditions for use of this product.