

Safety Data Sheet

According to EC Directive 91/155/EEC

Date of issue: 22.09.2005
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1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No.: 140530
Product name: Iriodin® 7217 Ultra Copper

Use of the substance/preparation

colorant

Company/undertaking identification

Company: Merck KGaA * 64271 Darmstadt * Germany * Phone: +49 6151 72-0
Emergency telephone No.: Please contact the regional Merck representation
in your country.

2. Composition/information on ingredients

Mica coated with: titanium dioxide + tin oxide

3. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation (large amounts of dusts): Fresh air. Consult doctor in the event of any complaints.
After skin contact: wash off with water.
After eye contact: rinse out with water.
After swallowing (large amounts): consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media:
In adaption to materials stored in the immediate neighbourhood.

Special risks:
Non-combustible. Ambient fire may liberate hazardous vapours.

Special protective equipment for fire fighting:
Do not stay in dangerous zone without self-contained breathing apparatus.

6. Accidental release measures

Person-related precautionary measures:
Avoid inhalation of dusts.

Procedures for cleaning / absorption:
Take up dry. Forward for disposal. Clean up affected area. Avoid generation of dusts.

Merck Safety Data Sheet

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7. Handling and storage

Handling:

No further requirements.

Storage:

Tightly closed. Dry. Storage temperature: no restrictions.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection: required when dusts are generated.

Eye protection: required

Hand protection: not required

Industrial hygiene:

Wash hands after working with substance.

9. Physical and chemical properties

Form:	powder		
Colour:	weakly yellowish		
Odour:	odourless		
pH value at 100 g/l H ₂ O	(20 °C)	8.0-11.0	(slurry)
Melting point		not available	
Boiling point		not available	
Ignition temperature		not available	
Flash point		not applicable	
Explosion limits	lower	not available	
	upper	not available	
Density	(20 °C)	3.1-3.3	g/cm ³
Bulk density		220-260	kg/m ³
Solubility in Water		not available	

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10. Stability and reactivity

Conditions to be avoided

not known to date

Substances to be avoided

no information available

Hazardous decomposition products

not known to date

Further information

none

11. Toxicological information

Acute toxicity

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

Further toxicological information

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no systemic effects 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; LD₅₀ (oral, rat): not determinable; all animals still alive after 5,000 mg/kg. Subchronic toxicity (rat): no appreciable findings up to 20 000 ppm. LC₅₀ (inhalational, rat):> 10.1 ml/l/4 h

12. Ecological information

Ecotoxic effects:

Quantitative data on the ecological effect of this product are not available.

Further ecologic data:

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

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations. Under www.retrologistik.de you will find country- and substance-specific information as well as contact partners.

Packaging:

Merck product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under www.retrologistik.de you will find special information on the respective national conditions as well as contact partners.

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14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

Symbol: ---

R-phrases: ---

S-phrases: 22 Do not breathe dust.

16. Other information

Reason for alteration

Chapter 9: change/addition in physical/chemical properties.

General update.

Regional representation:

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.