

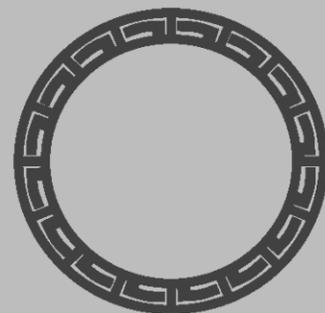
# Material Safety Data Sheet

## Mica Bronze Powder

Product Code: PM-000052

Department: mica dry pigments

C.A.S.: 12001-26-2, 1309-37-01



**KAMA**  
PIGMENTS

### Section: 1 Identification

Product name Mica Bronze Powder  
material use coloring material

### Section: 2 Hazard Identification

GHS-Labeling Not a dangerous substance according to GHS.  
Other hazards None known

#### SGH Label Elements

#### Signal Word

#### Precautionary Statements

P260 Do not breathe dust.

#### GHS Classification

#### Hazard Statements

### Section: 3 Composition / Information on Ingredients

Chemical nature Mica coated with titanium dioxide and ferric oxide

Hazardous ingredients  
CAS-No.

Chemical Name

Concentration

12001-26-2  
1309-37-1

mica (muscovite)  
Diiron trioxide

$\geq 50\% - < 70\%$   
 $\geq 30\% - < 50\%$

Exact percentages are being withheld as a trade secret.

---

## Section: 4 First-Aid Measures

### Description of first-aid measures

#### Inhalation

After inhalation fresh air.

Skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### Eye contact

After eye contact: rinse out with plenty of water.

#### Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects

both acute and delayed : We have no description of any toxic symptoms.

### Indication of any immediate medical

attention and special treatment needed: No information available

---

## Section: 5 Fire-Fighting Measures

### 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.

Special hazards arising from the substance or mixture Not combustible.

Ambient fire may liberate hazardous vapors.

### Advice for firefighters

Special protective equipment for fire-fighters In the event of fire, wear self-contained breathing apparatus.

---

## Section: 6 Accidental Release Measures

### 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.

Environmental precautions No special precautionary measures necessary.

### Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10).

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

---

## Section: 7 Handling And Storage

Precautions for safe handling: Observe label precautions.

Conditions for safe storage: Tightly closed. Dry.

Storage temperature: no restrictions.

## Section: 8 Exposure Control/Personal Protection

Exposure limit(s)

Ingredients

Basis	Value	Threshold limits	Remarks
General threshold limit value for dust			
Z1A	Time Weighted Average (TWA)	5 mg/m <sup>3</sup>	Form of exposure: Respirable fraction.
	Time Weighted Average: (TWA)	15 mg/m <sup>3</sup>	Form of exposure: Total dust.
	Time Weighted Average: (TWA)	50millions of particles per cubic foot of air	Form of exposure: Total dust.
	Time Weighted Average: (TWA)	15millions of particles per cubic foot of air	Form of exposure: respirable fraction.
OSHA_TRANS	PEL	5 mg/m <sup>3</sup>	Form of exposure: Respirable fraction.
	PEL	15 mg/m <sup>3</sup>	Form of exposure: Total dust.
ACGIH	Time Weighted Average (TWA)	10 mg/m <sup>3</sup>	Form of exposure: Inhalable particles.
	Time Weighted Average: (TWA)	3 mg/m <sup>3</sup>	Form of exposure: Respirable particles.
mica (muscovite) 12001-26-2			
ACGIH	Time Weighted Average (TWA)	3 mg/m <sup>3</sup>	Form of exposure: Respirable fraction.
NIOSH/GUIDE	Recommended exposure limit (REL)	3 mg/m <sup>3</sup>	Form of exposure: respirable. Expressed as: as Fe
Z1A	Time Weighted Average (TWA)	3 mg/m <sup>3</sup>	Form of exposure: respirable dust.
	Time Weighted Average (TWA)	20 millions of particles per cubic foot of air	Form of exposure: respirable dust.
Diiron trioxide 1309-37-1			
ACGIH	Time Weighted Average (TWA)	5 mg/m <sup>3</sup>	Form of exposure: Respirable fraction.
NIOSH/GUIDE	Recommended exposure limit (REL)	5 mg/m <sup>3</sup>	Form of exposure: Dust and fume. Expressed as: as Fe
OSHA_TRANS	Permissible exposure limit (PEL)	10 mg/m <sup>3</sup>	Form of exposure: fume.
Z1A	Time Weighted Average (TWA)	10 mg/m <sup>3</sup>	Form of exposure: fume.
Engineering measures	Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.		
Individual protection measures	Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.		
Hygiene measures	Change contaminated clothing. Wash hands after working with substance.		
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 performed according to the instructions of the producer. These measures have to be properly documented.		

---

## Section: 9 Physical and Chemical Properties

Physical state	powder
Color	light brown
Odor	odorless
Odor Threshold	Not applicable
pH at 100 g/l (20 °C)	3.0 – 7.0
Melting point	No information available.
Boiling point/boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	Not applicable
Relative vapor density	Not applicable
Density at 20 °C	No information available.
Relative density	No information available.
Water solubility at 20 °C	insoluble
Partition coefficient: n-octanol/water	Not applicable
Autoignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Particle size	10.0 - 60.0 µm

---

## Section: 10 Stability And Reactivity

Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
Possibility of hazardous reactions	no information available
Conditions to avoid	no information available
Incompatible materials	no information available
Hazardous decomposition products	no information available

---

## Section: 11 Toxicological Information

Likely route of exposure	Inhalation, Eye contact, Skin contact, Ingestion
Target Organs	Eyes Skin Respiratory system
Specific target organ systemic toxicity single exposure	The substance or mixture is not classified as specific target organ toxicant, single exposure.
repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration hazard	Regarding the available data the classification criteria are not fulfilled.
Carcinogenicity	
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
Further informations :	<p>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; sensitization test (guinea pig): no sensitizing potential. LD<sub>50</sub>(oral, rat): not determinable; all animals still alive after 15,000 mg/kg.</p> <p>Subchronic toxicity (rat): no appreciable findings up to 50 000 ppm.</p> <p>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.</p> <p>LC<sub>50</sub> (inhalational, rat): male animals: between 4.6 and 14.9 mg/l air; female animals: &gt; 14.9 mg/l air.</p> <p>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).</p> <p>Handle in accordance with good industrial hygiene and safety practice.</p>
Ingredients	
Diiron trioxide	
Germ cell mutagenicity	
Genotoxicity in vitro	
Ames test	
Result: negative (Lit.)	
mica (muscovite)	
No information available.	

---

## Section: 12 Ecological Information

Ecotoxicity	No information available.
Persistence and degradability	No information available.
Bioaccumulative potential	
Partition coefficient: n-octanol/water	Not applicable
Mobility in soil	No information available.
Ingredients	
Diiron trioxide	No information available.
mica (muscovite)	No information available.

---

## Section: 13 Disposal Considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

---

## Section: 14 Transport Information

Land transport (DOT)	Not classified as dangerous in the meaning of transport regulations.
Air transport (IATA)	Not classified as dangerous in the meaning of transport regulations.
Sea transport (IMDG)	Not classified as dangerous in the meaning of transport regulations.

---

## Section: 15 Regulatory Information

SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
Clean Water Act	This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
US State Regulations Massachusetts Right To Know Ingredients	Diiron trioxide mica (muscovite)
Pennsylvania Right To Know Ingredients	Diiron trioxide mica (muscovite)
New Jersey Right To Know Ingredients	Diiron trioxide mica (muscovite)
California Prop 65 Components	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.
Notification status	
TSCA:	All components of the product are listed in the TSCA-inventory.
DSL:	All components of this product are on the Canadian DSL

---

## Section: 16 Other Information

### Training advice

Provide adequate information, instruction and training for operators.

### Labeling

Precautionary Statements P260 Do not breathe dust.

### reference

manufacturer's material safety data sheet

### prepared by

Kama pigments

---

## Disclaimer:

Kama pigments, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information, refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Kama pigments Sales Office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Kama pigments makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Kama pigments' control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.



Last revision: 2016-09-22