

# Safety Data Sheets



## Interference Gold Mica

Product code: PM-000145

Department: mica dry pigments

C.A.S. : 12001-26-2, 1317-80-2, 18282-10-5

### Section: 1 Identification

Product name Interference Gold Mica  
material use coloring material

### Section: 2 Hazard Identification

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

#### HGS Label Elements

#### Signal Word

#### GHS Classification

The product does not require a hazard warning label in accordance with GHS criteria.

#### Hazard statements

No known significant effects or critical hazards.

#### Precautionary Statements

Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust.  
P281 Use personal protective equipment as required.  
P391 Collect spillage.  
P403 + 233 Store in a well-ventilated place. Keep container tightly closed.

### Section: 3 Composition / Information on Ingredients

Chemical nature Mica coated with titanium dioxide and ferric oxide. Contains no hazardous ingredients

ingredients

CAS-No.	Chemical Name classification*	Concentration	Hazard
1317-80-2	Titanium dioxide (rutile)	$\geq 50\% - < 70\%$	Not classified
12001-26-2	mica (muscovite)	$\geq 30\% - < 50\%$	Not classified
18282-10-5	Tin dioxide $\geq 1\% - < 5\%$	Not classified	
12001-26-2	iron oxide $\geq 1\% - < 5\%$	Not classified	

\* According to directive 67/548/EEC & Directive 1999/45/EC, Regulation (EC) No. 1272/2008(CLP)  
Exact percentages are being withheld as a trade secret.

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## Section: 4 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
Most important systems and effects, Both acute and delayed	
Actue :	None
Long term :	May cause irritation to the respiratory system. Cough. Increased difficulty in breathing
Indication of immediate medical attention and special treatment needed	
Recommended:	a. Chest XRay b. Lung functionality tests

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## 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.

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## Section: 6 Accidental Release Measures

Advice for non-emergency personnel:	Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.
Personal protection equipment :	wear appropriate personal protective equipment, avoid direct contact
In case of emergency :	A self contained breathing apparatus
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.

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## Section: 7 Handling And Storage

Precautions for safe handling:	Avoid breathing dust
Conditions for safe storage:	Keep containers in a wellventilated, dry place tightly closed.
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.
titanium(IV) oxide			
ACGIH	13463-67-7 Time Weighted Average (TWA)	10 mg/m <sup>3</sup>	Form of exposure: Total dust.
OSHA_TRANS	PEL	15 mg/m <sup>3</sup>	Form of exposure: Total dust.
Z1A	Time Weighted Average (TWA)	10 mg/m <sup>3</sup>	Form of exposure: Total 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.
crystalline silica 1317-95-9			

ACGIH	Time Weighted Average (TWA)	0.025 mg/m <sup>3</sup>	Form of exposure: Respirable fraction.
Z1A	Time Weighted Average (TWA)	0.1 mg/m <sup>3</sup>	Form of exposure: Respirable dust. Expressed as: as quartz
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	white
Odor	odorless
Odor Threshold	Not applicable
pH at 100 g/l (20 °C)	8.0 – 11.0
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	3.2 - 3.4 g/cm <sup>3</sup> .
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
Bulk density	490 - 540 kg/m <sup>3</sup>
Particle size	10 - 60 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	high temperature
Reactivity:	There may be violent or incandescent reaction of the product with metals at high temperatures (e.g., aluminium; calcium; magnesium; potassium; sodium; zinc;lithium)
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	Group 2B: Possibly carcinogenic to humans Rutile 1317-80-2
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 5,000 mg/kg.</p> <p>Subchronic toxicity (rat): no appreciable findings up to 20 000 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): &gt; 10.1 ml/l/4h.</p> <p>Handle in accordance with good industrial hygiene and safety practice.</p>
Ingredients	
rutile	No information available.
mica (muscovite)	No information available.
Tin dioxide	
Acute oral toxicity LD50 Rat:	> 20,000 mg/kg (RTECS)

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## 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	
rutile	No information available.
mica (muscovite)	No information available.
Tin dioxide	
Toxicity to daphnia and other aquatic invertebrates	
NOEC Daphnia magna (Water flea):	> 100 mg/l; 48 h (above the solubility limit in the test medium) (own results)
EC50 Daphnia magna (Water flea):	> 100 mg/l; 48 h (above the solubility limit in the test medium) (own results)
Biodegradability	The methods for determining the biological degradability are not applicable to inorganic substances.

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## 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.

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## 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.
Additional information	Custom tariff No. 32061900

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## 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	mica (muscovite) Tin dioxide
Pennsylvania Right To Know	
Ingredients	mica (muscovite) Rutile titanium dioxide
New Jersey Right To Know	
Ingredients	mica (muscovite) Tin dioxide
California Prop 65 Components	WARNING: this product contains a chemical known in the State of California to cause
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Ingredients	cancer. rutile
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

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