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LEGGARI

# METALLIC PIGMENT

Titanium Safety Data Sheet

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# 1 | PRODUCT IDENTIFICATION



**TRADE NAME (AS LABELED):**

**LEGGARI METALLIC PIGMENT - TITANIUM**

**SUPPLIER/MANUFACTURER'S NAME:**

**LEGGARI PRODUCTS, LLC**

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## CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

### ACCORDING TO REGULATION (EC) NO. 1272/2008(CLP)

- Not classified

### ACCORDING TO DIRECTIVE 67/548/EEC & DIRECTIVE 1999/45/EC

- Not classified

### ADDITIONAL INFORMATION

- Not available

## LABEL ELEMENTS

### GHS LABEL ELEMENTS

- Not applicable

### HAZARD PICTOGRAM(S)

- Not applicable

### SIGNAL WORD(S)

- Not applicable

### HAZARD STATEMENT(S)

- Not applicable

### PRECAUTIONARY STATEMENT(S)

- Not applicable

### OTHER HAZARDS:

- Not known



**Chemical family: mica-titanium oxide-iron oxide.**

Contains no hazardous ingredients

COMMON CHEMICAL NAME	CAS NO.	EINECS NO.	COLOUR INDEX	CHEMICAL COMPOSITION	HAZARD CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC & DIRECTIVE 1999/45/EC, REGULATION (EC) NO. 1272/2008(CLP)
Mica	12001-26-2	310-127-6	77019	69-73	Not Classified
Titanium dioxide	13463-67-7	236-675-5	77891	26-30	Not Classified
Iron oxide	1309-37-1	215-168-2	77491	0-1	Not Classified



## FIRST AID MEASURES FOR DIFFERENT EXPOSURE ROUTES

Inhalation	Remove casualty to fresh air and keep at rest
Skin contact	Wash affected skin with plenty of water
Eye contact	If in contact with eyes directly, flush with gently flowing fresh water thoroughly; If eye irritation persists, get medical advice/attention
Ingestion	If ingested, wash out mouth with water, drink milk or egg whites

\*Notes to physician: no special measures are required

## MOST IMPORTANT SYSTEMS AND EFFECTS

### Both acute and delayed

Acute: - None  
Long term (repeated): - May cause irritation to the respiratory system, cough, increased difficulty in breathing

## INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Recommended: a. Chest X-Ray  
b. Lung functionality tests



## **EXTINGUISHING MEDIA**

Suitable extinguishing media: - Extinguish with waterspray, foam or dry chemical  
Unsuitable extinguishing media: - Carbon dioxide

## **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Thermal hazards: - Noncombustible. None anticipated  
Advice for firefighters: - Fire fighters should wear complete protective clothing including self-contained breathing apparatus



## **PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES**

### **PERSONAL PRECAUTIONS**

Do not breathe dust

### **PERSONAL PROTECTIVE EQUIPMENT**

Wear appropriate personal protective equipment, avoid direct contact

### **IN CASE OF EMERGENCY**

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions

### **ENVIRONMENTAL PRECAUTIONS**

Do not allow to enter drains, sewers or watercourses

### **METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**

Collect mechanically and dispose of according to Section 13. Use vacuum equipment for collecting spilt materials, where practicable

### **REFERENCE TO OTHER SECTIONS**

See sections 8 and 13

**PRECAUTIONS FOR SAFE-HANDLING**

Avoid breathing dust

**CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES**

Keep container in a well ventilated place

**SPECIFIC END USE(S)**

Not known





### **SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**

Control parameters:

- Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures.

Exposure limit values:

- Not known

### **EXPOSURE CONTROLS**

#### **Appropriate engineering controls**

Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded. Isolate the dispersive process step away from other operations. This can be achieved by local exhaust ventilation or general ventilation.

### **INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT(PPE)**

#### **Hand/eye/face protection**

Wear gloves, eye protection and an approved dust mask if dust is generated during handling. Goggles giving complete protection to eyes. Dust mask covering nose and mouth.

#### **Skin protection**

Apron or other light protective clothing, boots and plastic or synthetic rubber gloves.

#### **Respiratory protection**

Dust mask covering nose and mouth.

#### **Thermal hazards**

None

#### **Environmental exposure controls**

Avoid dust generation. Avoid accumulation of dust.



<b>FORM:</b>	Powder
<b>COLOR:</b>	Titanium
<b>ODOR:</b>	Odorless
<b>PH:</b>	6.0-9.0 (4% H <sub>2</sub> O)
<b>BOILING POINT, °C:</b>	Not applicable
<b>MELTING POINT, °C:</b>	Decomposes
<b>FREEZING POINT, °C:</b>	Not applicable
<b>DENSITY:</b>	2.9-3.0 kg/L
<b>BULK DENSITY:</b>	23-27 g/100g
<b>VAPOUR PRESSURE:</b>	Not applicable
<b>SOLUBILITY (IN WATER):</b>	Insoluble
<b>PARTICLE SIZE:</b>	10-60µm



<b>REACTIVITY:</b>	There may be violent or incandescent reaction of the product with metals at high temperatures (e.g., aluminium; calcium; magnesium; potassium; sodium; zinc; lithium)
<b>CHEMICAL STABILITY:</b>	Stable under normal conditions
<b>POSSIBILITY OF HAZARDOUS REACTIONS:</b>	None
<b>CONDITIONS TO AVOID:</b>	High temperature
<b>INCOMPATIBLE MATERIALS:</b>	Strongly acidic, strongly alkaline, oxidizing agents
<b>DECOMPOSITION PRODUCTS:</b>	No information available



## **INFORMATION ON TOXICOLOGICAL EFFECTS**

**THIS INORGANIC PIGMENT IN GENERAL IS CONSIDERED TO BE PRACTICALLY NONTOXIC.**

Acute toxicity:	Not available
Carcinogenicity:	Not available

**TOXICITY:**

No data.

**PERSISTENCE AND DEGRADABILITY:**

Insoluble in water. This product is predicted not to degrade in soil and water.

**BIOACCUMULATIVE POTENTIAL:**

No data.

**MOBILITY IN SOIL:**

Not applicable.

**RESULTS OF PBT AND VPVB ASSESSMENT:**

Not applicable.

**OTHER ADVERSE EFFECTS:**

Not known.



**WASTE TREATMENT METHODS:**

Dispose of contents in accordance with local, state or national legislation.



\*Not classed as dangerous for transport

<b>International Transport Regulations</b>	<b>ADR/RID</b>	<b>ADN</b>	<b>IMDG</b>	<b>ICAO/IATA</b>
UN number	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Proper shipping name	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Transport hazard class(es)	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Packing group	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Environmental hazards	None	None	None	None
Special precautions for user	None	None	None	None
Transport in bulk according to Annex II of MAPRPOL73/78 and the IBC Code	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Hazard label(s): - Not Applicable  
 Additional information: - Custom tariff No. 32061900



**ACCORDING TO DIRECTIVE 67/548/EEC & DIRECTIVE 1999/45/EC:**

- Not classified as dangerous for supply/use

**SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

- Not available





## **ANNEX TO THE EXTENDED SAFETY DATA SHEET (ESDS)**

- ADR** - European Agreement concerning International Carriage of Dangerous Goods by Road
- CAS** - Chemical Abstracts Service
- EC** - European Community
- ICAO** - International Civil Aviation Organization
- IMDG** - International Maritime Dangerous Goods
- IATA** - International Air Transport Association

## **DATA SOURCES**

- NPIRI Raw Material Handbook, Volume 4, Pigments, Second Edition, 2001
- Book on "Safe Handling of Pigments", European Edition 1995, BCMA, EPSOM ETAD, VdMi HSDB
- NIOSH ICSC
- Hazardous Substance Fact Sheet, New Jersey Department of Health and Senior Service

**Prepared by:**

**LEGGARI PRODUCTS LLC**

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