



## Certificate of Analysis

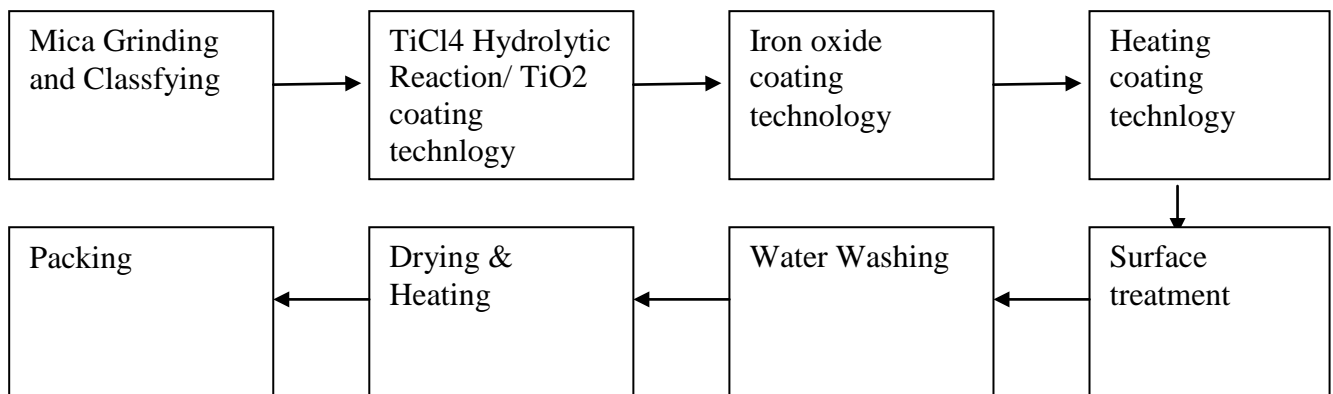
Trade Name: Titan Maroon

Batch No.: #190212

Assay(INCI)	Cas No.	Spec.Values	Batch Values	Method
Mica	12001-26-2	65-69%	66.80%	Manufacturer
Iron oxide	1309-37-1	31-35%	33.20%	Manufacturer
Particle size(80% within the range 10-100µm)		confirms	confirms	laser diffraction
Particle size(d50)		35-42µm	38µm	laser diffraction
pH-value(4% H2O)		6-9	7.2	ISO787-9
Loss on drying (105°C)		≤0.5%	≤0.5%	ISO787-9
Heavy metals				
As		≤2 ppm	≤2 ppm	Manufacturer
Ba		≤50 ppm	≤50 ppm	Manufacturer
Cd		≤3 ppm	≤3 ppm	Manufacturer
Cr		≤20 ppm	≤20 ppm	Manufacturer
Cu		≤50 ppm	≤50 ppm	Manufacturer
Hg		≤1 ppm	≤1 ppm	Manufacturer
Ni		≤10 ppm	≤10 ppm	Manufacturer
Pb		≤5 ppm	≤5 ppm	Manufacturer
Sb		≤1 ppm	≤1 ppm	Manufacturer
Zn		≤50 ppm	≤50 ppm	Manufacturer
Visual and colorimetric evaluation		confirms	confirms	Manufacturer
Microbiological purity				
Microorganisms		100CFU/g	100CFU/g	Manufacturer
Ph.Eur.USP XXII)		No Pathogens	No Pathogens	Manufacturer



## Mica Production Flow Chart





## **Declaration**

**TO:** Who may concern

We, MADAR Corporation, state that all Oxides and Micras are GMO free.

## Material Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Identifier**

Trade name : Titan Maroon Mica

Relevant identified uses of the substance or mixture and uses advised against : colouring agent

Uses advised against : not known

Details of the supplier of the safety data sheet : MADAR Corporation Limited

Approved sellers : Mystic Moments, New Directions, World of Moulds

### 2. HAZARD IDENTIFICATION

**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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family : mica - 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	65-69	Not classified
Iron oxide	1309-37-1	215-168-2	77491	31-35	Not classified

#### 4. FIRST AID MEASURES

##### Description of first aid measures

Inhalation: in case of accident by inhalation	: remove causality to fresh air and keep at rest
Skin contact	: wash affected skin with plenty of water
Eye contact	: if 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 white
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 XRay b. Lung functionality tests
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#### 5. FIREFIGHTING MEASURES

##### 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

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

Personal precautions	: do not breathe dust
Personal protection 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

## 7. HANDLING AND STORAGE

Precautions for safe handling : avoid breathing dust

Conditions for safe storage

including any incompatibilities : keep container in a wellventilated place

Specific end use(s) : not known

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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 protections 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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : powder  
Colour : Wine Red  
Odour : odourless  
pH : 6.0-9.0 (4% H<sub>2</sub>O)  
Boiling point, ° C : not applicable  
Melting point, ° C : decomposes  
Freezing point, ° C : not applicable  
Density : 2.9-3.0 kg/L  
Bulk density : 18-22 g/100g  
Vapour pressure : not applicable  
Solubility (in water) : insoluble  
Particle size : 10-100µm

## 10. STABILITY AND REACTIVITY

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)

Chemical stability : stable under normal conditions

Possibility of hazardous reactions : none

Conditions to avoid : high temperature

Incompatible materials : strongly acidic, strongly alkaline, oxidizing agents

Decomposition products : no information available

**11. TOXICOLOGICAL INFORMATION**

**Information on toxicological effects**

This inorganic pigment in general is considered to be practically nontoxic.

Acute toxicity : not available

Carcinogenicity : not available

**12. ECOLOGICAL INFORMATION**

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

**13. DISPOSAL CONSIDERATIONS**

Waste treatment methods : dispose of contents in accordance with local, state or national legislation

**14. TRANSPORT INFORMATION**

Not classed as dangerous for transport.

International Transport Regulations	ADR/RID	ADN	IMDG	ICAO/IATA
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 MARPOL73/78 and The IBC Code	Not applicable	Not applicable	Not applicable	Not applicable

Hazard label(s)	Not applicable
Additional information	Custom tariff No. 32061900

#### 15. REGULATORY INFORMATION

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

#### 16. OTHER INFORMATION

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

We have described our product concerning possible safety requirements by the abovementioned information given to the best of our knowledge and experience. All data given are never meant to guarantee any quality description nor product properties



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*TECHNICAL DATA SHEET*

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Product name :	<b>Titan Maroon Mica</b>
Product code :	<b>CLRTITAMARO</b>
INCI Name :	Mica- Iron oxide
CAS No. :	12001.26.2-1309.37.1
Date :	01.10.2015

CHARACTERISTICS		RANGE	
<b><u>Physical properties</u></b>			
Characteristics		Flash Wine Red	
Average particle size		10- 100µm	
D-50		35- 42µm	
<b><u>Chemical composition</u></b>			
Mica	(C.I. 77019)	65.0 -69.0 %	
Iron oxide	(C.I. 77491)	31.0 -35.0 %	
<b><u>Heavy metals</u></b>			
As	< 2 ppm	Hg	< 1 ppm
Ba	< 50 ppm	Ni	< 10 ppm
Cd	< 3 ppm	Pb	<5 ppm
Cr	< 20 ppm	Sb	< 1 ppm
Cu	< 50 ppm	Zn	< 50 ppm
<b><u>Microbial purity</u></b>			
Total viable Aerobic count		< 100	
E. Coli		Absent in 1 g	
Pseudomonas aeruginosa		Absent in 1 g	
Staphylococcus aureus		Absent in 1 g	
Salmonella species		Absent in 1 g	
Candida albicans		Absent in 1 g	



## **Declaration**

**TO:** Who may concern

We, MADAR Corporation Limited, state that all Oxides and Micas are Cruelty free and Vegan.