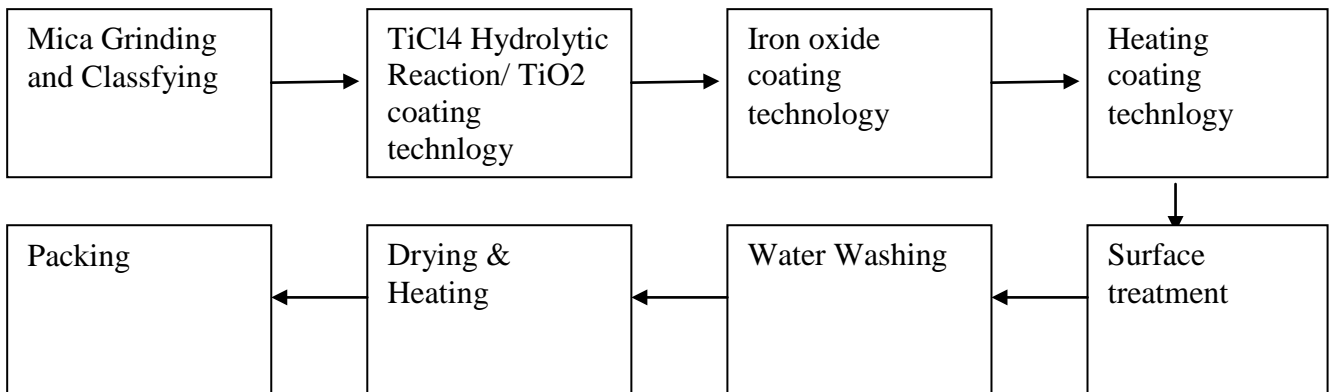


## Certificate of Analysis

Trade Name: Titan Violet				
Batch No.: #190103				
Assay(INCI)	Cas No.	Spec.Values	Batch Values	Method
Mica	12001-26-2	69-73%	70.80%	Supplier
Titanium dioxide	13463-67-7	26-30%	27.70%	Supplier
Tin Dioxide	18282-10-5	0-1%	0.40%	Supplier
Iron oxide	1309-37-1	0-1%	0.50%	Supplier
Manganese violet	10101-66-3	0-1%	0.60%	Supplier
Particle size(80% within the range 10-60µm)		confirms	confirms	laser diffraction
Particle size(d50)		21-26µm	23µm	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	Supplier
Ba		≤50 ppm	≤50 ppm	Supplier
Cd		≤3 ppm	≤3 ppm	Supplier
Cr		≤20 ppm	≤20 ppm	Supplier
Cu		≤50 ppm	≤50 ppm	Supplier
Hg		≤1 ppm	≤1 ppm	Supplier
Ni		≤10 ppm	≤10 ppm	Supplier
Pb		≤5 ppm	≤5 ppm	Supplier
Sb		≤1 ppm	≤1 ppm	Supplier
Zn		≤50 ppm	≤50 ppm	Supplier
Visual and colorimetric evaluation		confirms	confirms	Supplier
Microbiological purity				
Microorganisms		<100CFU/g	<100CFU/g	Supplier
Ph.Eur.USP XXII		No Pathogens	No Pathogens	Supplier
It is hereby confirmed that the delivered goods have been examined and they are in accordance with our confirmation of order				



## 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 Violet 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

Manufacturer: : 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 - titanium oxide- tin dioxide- iron oxide - manganese violet. 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
Tin dioxide	18282-10-5	242-159-0	77861	0-1	Not classified
Iron oxide	1309-37-1	215-168-2	77491	0-1	Not classified
Manganese violet	10101-66-3	233-257-4	77742	0-1	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  
Actue : 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

#### 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 : Violet

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 : 2.9-3.1 kg/L

Bulk density : 27-32g/100g

Vapour pressure : not applicable

Solubility (in water) : insoluble

Particle size : 10-60µm

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



*TECHNICAL DATA SHEET*

Product name :	<b>Titan Violet Mica</b>
Product code :	CLRTITAVIOL
INCI Name :	Mica –Titanium dioxide – Iron oxide– Tin dioxide –Manganese violet
CAS No. :	12001.26.2–13463.67.7–1309.37.1–18282.10.5–10101.66.3
Date :	01.10.2015

CHARACTERISTICS		RANGE	
<b><u>Physical properties</u></b>			
Characteristics		Violet	
Average particle size		10– 60 µm	
D–50		21– 26 µm	
<b><u>Chemical composition</u></b>			
Mica	(C.I. 77019)	69.0 –73.0 %	
Titanium dioxide	(C.I. 77891)	26.0 –30.0 %	
Iron oxide	(C.I. 77491)	0– 1.0 %	
Tin dioxide	(C.I. 77861)	0– 1.0 %	
Manganese violet	(C.I. 77742)	0– 1.0 %	
<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.