

## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Trade Name: Royal Blue 120E

Relevant identified uses  
 of the substance or

Mixture: Colouring agent

Uses advised against: Not known

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family: - . mica - titanium oxide- ultramarine blue. 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	55-59	Not classified
Titanium dioxide	13463-67-7	236-675-5	77891	40-44	Not classified
Ultramarine blue	57455-37-5	309-928- <sup>1</sup>	77007	0-1	Not classified

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

### 1 . HAZARDS IDENTIFICATION

**Classification of the substance or mixture** According  
 to Regulation (EC) No.

Signal word(s) : not applicable  
Hazard statement(s) : not applicable  
Precautionary statement(s) : not applicable

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Other hazards: not known

### 4. FIRST AID MEASURES Description

Inhalation (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  
Note to Physician: No special measurers are required

### Most Important Systems and Effects

Both Acute and Delayed

Acute: None  
Long Term (Repeated): May cause irritation to 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. FIRE FIGHTING MEASURES Extinguishing Media

Suitable extinguishing media: Extinguish with water spray, foam or dry chemical  
Unsuitable extinguishing media: Carbon dioxide

### Special Hazards Arising From the Substance or Mixture

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

### 6. ACCIDENTAL RELEASE MEASURES Personal Precautions, Protective Equipment and Emergency Procedure

Personal precautions: Do not breathe dust

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Personal protection equipment:	Wear appropriate personal protection 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
Containment and cleaning up:	Collect mechanically and dispose of according to section 13. Use vacuum equipment for collecting split materials, where practicable
Reference to other sections:	See section 8 and 13

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### 7. HANDLING AND STORAGE

Precautions for safe handling:	Avoid breathing dust
Condition for safe storage including any incompatibilities:	Keep container in a well ventilated place
Specific end uses(s):	Not known

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTON

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 the dispersive process, step away from other operations. This can be achieved by local exhaust ventilation or general ventilation.
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#### 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 rubbers gloves
Respiratory protection:	Dust mask covering nose and mouth
Thermal hazards:	None
Environmental exposure control:	Avoid dust generation. Avoid accumulation of dust

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: powder
Colour	: Royal Blue
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	: 3.0-3.1 kg/L
Bulk density	: 24-28 g/100g
Vapour pressure	: not applicable
Solubility (in water)	: insoluble
Particle size	: 10-60 µm

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## 10. STABILITY AND REACTIVITY

Reactivity:	There may be violent or incandescent reaction of the product with metals at high temperature (e.g. aluminium, magnesium, potassium, sodium, zinc, lithium)
Chemical stability:	Stable under normal conditions
Possibility of hazardous reaction:	None
Condition to avoid:	High temperature
Incompatible materials:	Strongly acidic, alkaline, oxidizing agents
Decomposition products:	No information available

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## 11. TOXICOLOGICAL INFORMATION Information on Toxicological Effects

This inorganic pigment in general are considered to be practically non-toxic

Acute Toxicity Inhalation:	Not Available.
Carcinogenicity:	Not available

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## 12. ECOLOGICAL INFORMATION

Toxicity:	No data
Persistence and degradability:	Insoluble in water. This product is predicted not to degrade in soil and water.
Bio-accumulative potential:	No data
Mobility in soil:	No applicable

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Results of PBT and vPvB: 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 classified as dangerous 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)

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ADR:	European Agreement concerning international carriage of dangerous goods by road
CAS:	Chemical Abstracts Service
EC:	European Community
ICAO:	International Civil Aviation Organisation
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, EPSOME ETAD, VdMi

HSDB

NIOSH ICSC

Hazardous Substance Fact Sheet, New Jersey Department of Health and Senior Service

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--End of MSDS--