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## MATERIAL SAFETY DATA SHEET

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

#### Product Identifier

Trade Name : Shamrock 100F  
Relevant identified uses of the substance or mixture : Colouring agent  
Uses advised against : Not known

### 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 applicable

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical family : Mica, Titanium Dioxide, Chromium Oxide Green.  
Contains no hazardous ingredients.

Common chemical Name	CAS No.	EINECS No.	Colour Index (CI)	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	43-47	Not classified
Titanium Dioxide	13463-67-7	236-675-5	77891	52-56	Not classified
Chromium Oxide Green	1308-38-9	215-160-9	77288	0-1	Not classified

#### 4. FIRST AID MEASURES

##### **Description of First Aid Measures**

Inhalation in case of accident by inhalation	: Remove casualty to fresh air and keep at rest
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 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 test
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#### 5. FIREFIGHTING MEASURES

##### **Extinguishing Media**

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

##### **Special hazards arising from the substance or mixture**

Thermal hazards	: Non-combustible. 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 breath dust
Personal protection equipment	: Wear appropriate personal protective equipment, avoid dirt 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 water courses
Methods and materials for containment and cleaning up	: Collect mechanically and dispose according to Section 13. Use vacuum equipment for collecting split materials, where practicable
Reference to other sections	: See section 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 well ventilated place
Specific end uses (s)	: Not known

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters	: Provide adequate ventilation when using the material and follow the principle of good occupational hygiene to control personal exposure
Exposure limit values	: Not known
<b>Exposure controls</b>	
Appropriate engineering controls	: Provide adequate ventilation to ensure 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
<b>Individual protection measures such as personal protective equipment (PPE)</b>	
Hand/eye/face protection	: Wear gloves, eye protection and an approved dust mask if dust is generated during handling. Goggle gives 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
Environment exposure controls	: Avoid dust generation. Avoid accumulation of dust.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Powder
Colour	: Shamrock
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	: 3.2-3.3 kg/L
Bulk density	: 32-36 g/100g
Vapour pressure	: Not applicable
Solubility (in water)	: Insoluble
Particle size	: 10-60 µm

## 10. STABILITY AND REACTIVITY

Reactivity	: There may be violent or incandescent reaction of the product with metals at high temperatures (e.g. aluminum, calcium, magnesium, potassium,
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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, oxidising agents  
 Decomposition products : No information available

11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

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

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.  
 Bio-accumulative potential : No data  
 Mobility in soil : Not applicable  
 Results of PBT and vPvB assessment : Not applicable  
 Other adverse effects : Not known

13. DISPOSAL CONSIDERATION

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	AND	IMDG	ICAO / IATA
UN Number	N/Applicable	N/App	N/App	N/App
Proper shipping name	N/Applicable	N/App	N/App	N/App
Transport hazard class (es)	N/Applicable	N/App	N/App	N/App
Packing group	N/Applicable	N/App	N/App	N/App
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	N/A	N/A	None	None
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 (eSADS)

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, EPSOM ETAD, VdMi  
HSDB  
NIOSH ICSC  
Hazardous Substance Fact Sheet, New Jersey Department of Health and Senior Service

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