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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product Identifier

Trade Name : Metallic Glitter 130G
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 : Fluorophlogopite, Titanium Dioxide, Tin Dioxide, Iron Oxide. 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) |
|----------------------|------------|------------|-------------------|----------------------|--|
| Fluorophlogopite | 12003-38-2 | 234-426-5 | | 66-72 | Not classified |
| Titanium Dioxide | 13463-67-7 | 236-675-5 | 77891 | 26-33 | Not classified |
| Tin Dioxide | 18282-10-5 | 242-159-0 | 77861 | 0-1 | Not classified |
| Iron Oxide | 1309-37-1 | 215-168-2 | 77491 | 1-2 | 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 |
|-------------|--|

5. FIREFIGHTING MEASURES

Extinguishing Media

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|--------------------------------|--|
| 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

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|-------------------------|--|
| 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

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|---|--|
| 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

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|---|---|
| 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 |
| Exposure controls | |
| 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 |
| 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. 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 | : Metallic Glitter |
| Odour | : Odourless |
| pH | : 6.0-11.0 |
| Boiling Point °C | : Not applicable |
| Melting Point °C | : Decomposes |
| Freezing Point °C | : Not applicable |
| Oil absorption | : 65-80g/100g |
| Bulk density | : 0.15-0.7g/cm ³ |
| Vapour pressure | : Not applicable |
| Solubility (in water) | : Insoluble |
| Particle size | : 30-150µm |

10. STABILITY AND REACTIVITY

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| Reactivity | : There may be violent or incandescent reaction of the product with metals at high temperatures (e.g. aluminum, 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, 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 classified 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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