

According to EC Regulation 1907/2006 (REACH), 1272/2008 (CLP) & 453/2010

Date of issue : 07.09.2011 – Version : EU_EN/2 – Print date : February 2014

Material Safety Data Sheet

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

Product Identifier

Trade name : Flash Cobalt Blue KT-66B2

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

Manufacturer:

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 oxide- ferric ferrocyanide. 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 | 44-49 | Not classified |
| Titanium dioxide | 13463-67-7 | 236-675-5 | 77891 | 50-55 | Not classified |
| Tin oxide | 18282-10-5 | 242-159-0 | 77861 | 0-1 | Not classified |
| Ferric ferrocyanide | 1408-43-8 | 237-875-5 | 77510 | 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

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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 : Flash Cobalt Blue

Odour : odourless

pH : 6.0-9.0 (4% H₂O)

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 : 20-100µm

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., 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 |

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