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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product Identifier

Trade Name : Black Iron Oxide
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 : Black 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)
Black Iron Oxide	1317-61-9	215-277-5	77499	97-100	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
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	: Black
Odour	: Odourless
pH	: 6-9 (10% aqueous slurry)
Boiling Point °C	: Not applicable
Melting Point °C	: No data
Freezing Point °C	: Not applicable
Bulk density	: 1.0-1.4g/ml
Vapour pressure	: Not applicable
Solubility	: Insoluble
Density	: 5.0g/ml
Primary Particle size	: 0.2 micron

10. STABILITY AND REACTIVITY

Reactivity	: There may be violent or incandescent reaction of the product with metals at high temperatures
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(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 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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