



Certificate of Analysis

Trade Name: Brown Iron Oxide

Batch No.: 211019

Assay(INCI)	Cas No.	Spec.Values	Batch Values	Method
Red Iron Oxide	1309-37-1	42%-45%	44%	Kolortek
Yellow Iron Oxide	20344-49-4	40-%44%	42%	Kolortek
Black Iron Oxide	1317-61-9	11%-18%	14%	Kolortek

Heavy metals

As	≤2 ppm	≤2 ppm	Kolortek
Ba	≤50 ppm	≤50 ppm	Kolortek
Cd	≤3 ppm	≤3 ppm	Kolortek
Cr	≤20 ppm	≤20 ppm	Kolortek
Cu	≤50 ppm	≤50 ppm	Kolortek
Hg	≤1 ppm	≤1 ppm	Kolortek
Ni	≤10 ppm	≤10 ppm	Kolortek
Pb	≤5 ppm	≤5 ppm	Kolortek
Sb	≤1 ppm	≤1 ppm	Kolortek
Zn	≤50 ppm	≤50 ppm	Kolortek

Visual and colorimetric evaluation

confirms confirms Kolortek

Microbiological purity

Microorganisms	100CFU/g	100CFU/g	Kolortek
Ph.Eur.USP XXII)	No Pathogens	No Pathogens	Kolortek

It is hereby confirmed that the delivered goods have been examined and they are in accordance with our confirmation of order



DECLARATION

Products:

Brown Oxide Mineral powder

We declare that non allergens are present in our product as listed above.

Allergens:

Gluten

Crustacea

EGG

Fish

Lupin

Milk /Dairy

Peanut

Sesame Seeds

Soybean

Tree Nuts

Sulphites

According to Regulation(EU) 2015/830

Date of issue : 07.09.2020 – Version : EU_EN/2 – Print date : February 2021

Material Safety Data Sheet

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

Product Identifier

Trade name :!Brown!Iron!Oxide!

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: Kolortek Co., Ltd.

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: Red iron oxide- yellow iron oxide- black iron oxide. 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)
Red Iron Oxide	1309-37-1	215-168-2	77491	99-100	Not classified
Yellow Iron Oxide	20344-49-4	215-168-2	77492		Not classified
Black Iron Oxide	1317-61-9	215-277-5	77499		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
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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 selfcontained 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

According to Regulation(EU) 2015/830

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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 : Brown
Odour : odourless
Boiling point, ° C : not applicable
Melting point, ° C : no data
Freezing point, ° C : not applicable
Density : 5.0 g/ml
Bulk density : 1.0-1.4 g/ml
Vapour pressure : not applicable
Solubility : insoluble
Primary particle size : 0.1*0.7 micron

10. STABILITY AND REACTIVITY

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)

19-20 Sandheath Industrial Estate, Fordingbridge, Hampshire, SP14 4JH, UK

Tel: 01425 655555 Email: technical@madarcorporation.co.uk



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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 potentiall : 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
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)	19-20 Sandleheath Industrial Estate, Fordingbridge, Hampshire, SP6 1PA, UK Tel: 01425 655555 Email: technical@madarcorporation.co.uk			
Additional information	Page 6 of 7 Custom tariff No. 32061900			



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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