



**Material Safety Data Sheet**

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

**Product Identifier**

Trade name : Yellow Iron Oxide KT-81004  
 Relevant identified uses of the substance  
 or mixture and uses advised against : coloring agent  
 Uses advised against : not known  
 Details of the supplier of the safety  
 data sheet

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: Yellow iron oxide. Contains no hazardous ingredients

Common chemical name	CAS No.	EINECS No.	Colour Index	Chemical composition	Hazard classification
Yellow Iron Oxide 42	20344-49-4	215-168-2	77492	97-100	According to directive 67/548/EEC & Directive 1999/45/EC, Regulation (EC) No. 1272/2008(CLP)  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 water spray, foam o 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**

Precautions for safe handling : avoid breathing dust



Conditions for safe storage

including any incompatibilities : keep container in a well-ventilated place  
 Specific end use(s) : not known

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters : provide extra 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 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. 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 : Yellow
- Odour : odourless
- Boiling point, ° C : not applicable
- Melting point, ° C : no data
- Freezing point, ° C : not applicable
- Density : 4.0 g/ml
- Bulk density : 0.3-0.5 g/ml
- Vapour pressure : not applicable
- Solubility : insoluble
- Primary particle size : 0.1\* .8 micron

10. STABILITY AND REACTIVITY

Reactivity : Chemical stability  
 Possibility of hazardous reactions  
 lithium)

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: there may be violent or  
incandescent reaction of the  
product with metals at high  
temperatures (e.g., aluminum;  
calcium; magnesium; potassium;  
sodium; zinc;

: stable under normal conditions

: 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 MARPOL7 /78 and The IBC Code	Not applicable	Not applicable	Not applicable	Not applicable
Hazard label(s)	Not applicable			
Additional information	Custom tariff No. 3206 1900			

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15.REGULATORY INFORMATION



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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
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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