

# Safety Data Sheet as per regulation (EC) 1907/2006

Commercial Product Name: Kimpigment Iron Oxide Black

Revision date: 01.07.2013

Version: 1.0/en

Print date: 01.07.2013



## **1. Identification of the substance/mixture and of the company/undertaking**

### **Product identifier**

Commercial Product Name                      **Kimpigment Iron Oxide Black**

Designation acc. to 67/548/EEC /      triiron tetraoxide  
1272/2008/EEC

CAS no.    1317-61-9

EC-No.    215-277-5

REACH registration number                01-2119457646-28-0025

### **Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses                      Paints, Coating, Ink, Paving stone, Roofing Tile, Bricks, Concrete block

### **Details of the supplier of the safety data sheet**

Manufacturer                                      Kimix Chemical Co., Ltd.  
Add:Rm. 501, Hongshi Mansion, No. 225 Chaowang Rd.  
RC- Hangzhou 310015, China  
Telephone: +86 571 8839 2380  
FAX: +86 571 8839 0023  
Internet: www.kimix.com.cn

## **2. Hazards identification**

### **Classification of the substance or mixture**

Classification according to Regula-      According to CLP criteria and based on the available data the product does  
tion (EC) No. 1272/2008                      not need to be classified.

Classification according to Directive      According to EC directives and based on the available data the product does  
67/548/EEC / 1999/45/EEC                      not need to be classified.

### **Label elements**

Labelling according to Regulation              According to CLP criteria and based on the available data the product does  
(EC) No. 1272/2008 [CLP]                      not need to be labelled.

### **Other hazards**

Particular information pertaining              Health injuries are not known or expected under normal use.  
specific risk for human / environ-              Ecological injuries are not known or expected under normal use.  
ment

## **3. Composition/information on ingredients**

Chemical characterization                      pigment

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Other data C. I. Pigment BLACK 11

### **4. First aid measures**

#### **Description of first aid measures**

General advice	Get medical advice/attention if you feel unwell.
If inhaled	Remove casualty to fresh air and keep warm and at rest.
In case of skin contact	After contact with skin, wash immediately with plenty of water and soap.
In case of eye contact	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed	Get medical advice/attention if you feel unwell.

#### **Most important symptoms and effects, both acute and delayed**

Symptoms	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.
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#### **Indication of any immediate medical attention and special treatment needed**

Immediate medical attention	First Aid, decontamination, treatment of symptoms.
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### **5. Firefighting measures**

#### **Extinguishing media**

Suitable extinguishing media	The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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#### **Special hazards arising from the substance or mixture**

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases	No hazards to be specially mentioned.
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#### **Advice for firefighters**

Special protective equipment for firefighting	In case of fire: Wear self-contained breathing apparatus.
Additional information on firefighting	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### **6. Accidental release measures**

#### **Personal precautions, protective equipment and emergency procedures**

Personal precautions	Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protection equipment. (see chapter 8).
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#### **Environmental precautions**

Environmental precautions	Do not allow uncontrolled discharge of product into the environment.
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#### **Methods and material for containment and cleaning up**

Methods for cleaning up	Avoid dust formation. Take up mechanically, placing in appropriate containers for disposal.
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#### **Reference to other sections**

Reference to other sections	Personal protection equipment: see section 8
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Disposal: see section 13

## 7. Handling and storage

### Precautions for safe handling

Advice on safe handling

Avoid generation of dust. Do not breathe dust/fume/gas/mist/vapours/spray. Provide adequate ventilation as well as local exhaust at critical locations. Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

### Conditions for safe storage, including any incompatibilities

Storage space and container requirements

Store in a dry place. Store in a closed container. Recommended storage temperature: at room temperature

### Specific end use(s)

Specific use(s)

See chapter 1

## 8. Exposure controls/personal protection

### Control parameters

triiron tetraoxide

Austria

Area of validity	Long-term exposure value / mg/m <sup>3</sup>	Short-term exposure value / mg/m <sup>3</sup>	Duration	Frequency per shift	Source
MAK	10 E 5 A	20 E 10 A	60(Miw)	2x	15

15 – Stoffliste (MAK-Werte und TRK-Werte 2007)

### Exposure controls

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Half mask with a particle filter P2 (EN 143).

Hand protection

Wear suitable gloves. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

Wear eye glasses with side protection according to EN 166.

Skin and body protection

Wear suitable protective clothing.

General protective and hygiene measures

When using do not eat, drink or smoke. Avoid contact with skin and eyes. Remove contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

Engineering measures

Comply with occupational limit values for dust. Provide adequate ventilation as well as local exhaust at critical locations.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state

solid

Form

Powder

Colour

black

Odour

odourless

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Odour threshold	not applicable
pH	ca. 3.5 – 7
Concentration:	100 g/l
Melting point [°C]	1597 °C
Boiling point [°C]	> 300 °C
Flash point [°C]	not applicable
Evaporation rate [kg/(s*m <sup>2</sup> )]	not applicable
Flammability	Non-flammable.
Risk of explosion.	not explosive.
Vapour pressure [kPa]	not applicable
Density [g/cm <sup>3</sup> ]	5170 g/L
Relative density	No data available
Relative density of a vapour / air mixture (saturated)	Not applicable.
Water solubility [g/l]	< 0.000001 g/l Fe
Partition coefficient n-octanol /water (log P O/W)	not applicable
Autoignition temperature [°C]	> 400 °C
Decomposition temperature [°C]	No data available
Viscosity, dynamic [kg/(m*s)]	not applicable
Oxidation	Not oxidising.

### Other information

Other data Particle size (µm): 0.4 µm

## **10. Stability and reactivity**

### Reactivity

Reactivity Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### Chemical stability

Chemical stability Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

### Conditions to avoid

Conditions to avoid Protect from moisture. Protect from heat and direct sunlight.

### Incompatible materials

Materials to avoid No special restrictions on storage with other products.

### Hazardous decomposition products

Hazardous decomposition products No data available

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## 11. Toxicological information

### Information on toxicological effects

Oral toxicity [mg/kg] LD50 > 2000 mg/kg  
Remarks: Virtually nontoxic after a single ingestion.  
Dermal toxicity [mg/kg] No data available  
Inhalative toxicity [mg/l]

Value	Exposure duration	Remarks
LC50 > 24.2 mg/m <sup>3</sup>	2 h	Virtually nontoxic by a single inhalative exposure.; By analogy. (diiron trioxide)

Irritant effect on skin Not an irritant.  
Irritant effect on eyes Not an irritant.  
Irritant effect on the respiratory tract Not an irritant.  
Sensitization not sensitising.  
Carcinogenic effects No data available  
Mutagenicity Ames test negative.  
Gene-mutations mammalian cells (V79 cells, OECD 476): negative.  
Chromosomal aberrations mammalian cells (OECD 473): negative.  
Reproduction toxicity No data available  
Specific target organ toxicity (single exposure) [mg/kg] No data available  
Specific target organ toxicity (repeated exposure) [mg/kg]

Value	Test species	Exposure duration
NOAEC 4.7 mg/m <sup>3</sup>	Rat.	Subchronic inhalation toxicity (6 h/day, 5 days/week, 13 weeks)

Aspiration hazard not applicable

## 12. Ecological information

### Toxicity

Toxicity to fish [mg/l]

Value	Test species	Duration of dosage	Remarks
LL0 > 10000 mg/l	Brachydanio rerio (zebra-fish)	96 h	By analogy. (mixture containing ca. 50 % triiron tetraoxide)

Toxicity to daphnia [mg/l]

Value	Test species	Exposure duration	Remarks
ELO > 10000 mg/l	Daphnia magna (Big water flea).	48 h	By analogy. (mixture containing ca. 50 % triiron tetraoxide)

Toxicity to algae [mg/l] no data available

### Persistence and degradability

Biodegradability Not applicable. Product/Substance is inorganic.

## Safety Data Sheet as per regulation (EC) 1907/2006

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### Bioaccumulative potential

Bioaccumulation No indication of bioaccumulation potential.

### Mobility in soil

Distribution in the environment Not expected to adsorb on soil.

### Results of PBT and vPvB assessment

Results of PBT characteristics determination Not applicable. Product/Substance is inorganic.

### Other adverse effects

Further information on ecology Do not allow uncontrolled discharge of product into the environment.

## 13. Disposal considerations

### Waste treatment methods

Disposal considerations Dispose according to legislation. Observe in addition any national regulations!

Uncleaned empty packaging Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

## 14. Transport information

	Land transport ADR/RID	Marine transport IMDG/ GGVSee	Air transport ICAO/IATA
Remarks	No dangerous good in sense of this transport regulation.	No dangerous good in sense of this transport regulation.	No dangerous good in sense of this transport regulation.

## 15. Regulatory information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

Additional regulations Observe in addition any national regulations!

Water hazard class (self-classification) non-hazardous to water (nwg)

### Chemical safety assessment

Safety assessment For this substance a chemical safety assessment has been carried out.

## 16. Other information

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.