

According to Regulation (EC) No 1907/2006, Annex II, Amended by Regulation (EU) No 2015/830 According to Regulation (EC) No 1272/2008



Iron oxide brown

SDS Record Number: CSSS-TCO-010-111102
Printing date: 01/06/2016 Version 1.2 Revision date: 01/06/2016

Section 1 Identification of the substance and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name:Iron oxide brownAdditional identification:Not availableIdentification of the product:See section 3Index Number:Not availableREACH registration No.:See section 3

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Mainly as colorants and some other technical applications

1.2.2 Uses advised against:

No uses advised against are identified

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative): Chemical Inspection & Regulation Service Limited

Supplier(Manufacturer): Shenghua Group Deqing Huayuan Pigment Co., Ltd

Address: Zhongguan Town, Deqing County, Zhejiang Province, China

Contact person(E-mail):

Telephone: +86-572-8401598

Fax:

1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours?

Section 2 Hazards Identification

2.1 Classification of the mixture

2.1.1 Classification:

The mixture is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
N/A	N/A

For full text of H- phrases: see section 2.2.

2.1.2 The most important adverse effects

2.1.2.1 The most important adverse physicochemical effects:

Not applicable.

2.1.2.2 The most important adverse human health effects:

Not applicable.

2.1.2.3 The most important adverse environmental effects:

Not applicable.

2.2 label elements



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Hazard Pictograms: No hazard pictogram is used.

Signal Word(S): No signal word is used.

Hazard Statement: Not applicable. Precautionary Statement: Not applicable.

2.3 Other hazards

Not available (PBT,vPvB, Substance is an endocrine disruptor etc.)

Section 3 Composition/information on ingredients

Substance/Mixture: mixture

Ingredient(s):

Chemical Name	Registration No.	CAS No.	EC No.	Concentration
Triiron tetraoxide	01-2119457646-28-0014	1317-61-9	215-277-5	40%
Diiron trioxide	01-2119457614-35-0043	1309-37-1	215-168-2	30%
Iron Hydroxide Oxide	01-2119457554-33-0014	20344-49-4 / 51274-00-1	243-746-4 / 257-098-5	30%

Section 4 First aid measures

4.1 Description of first aid measures:

In all cases of doubt, or when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

4.1.2 In case of skin contact:

No special measures required.

4.1.3 In case of eyes contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

4.1.4 In case of ingestion:

No special measures required.

4.2 Most important symptoms and effects, both acute and delayed

The product is not classified as harmful to human health effect.

4.3 Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice/attention.

Section 5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: In case of fire, use water spray (fog), foam, dry chemical or CO2.



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Unsuitable extinguishing media: Not applicable

5.2 Special hazards arising from the substance or mixture

No specific fire or explosion hazard.

5.3 Advice for fire-fighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Provide adequate ventilation. Put on appropriate personal protective equipment. Hazard of slipping on spilt product.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 Environmental Precautions:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods for Containment and Cleaning up:

Large spill:

Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Small spill:

Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

Section 7 Handling and storage

7.1 Precautions for safe handling:

7.1.1 Protective measures:

No special measures required.

7.1.2 Advice on general occupational hygiene:

No special measures required

7.2 Conditions for safe storage, including any incompatibilities:

No special measures required

7.3 Specific end use(s):

Not applicable.

Section 8 Exposure control/personal protection

8.1 Control parameters:



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8.1.1 Occupational exposure limits: Not available.

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls

8.2.1Appropriate engineering controls:

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases

or dusts.

Recommended: safety glasses with side-shields

Hand protection gloves

Body protection Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before handling

this product

Respiratory protection Recommended: Dust-protection mask

Thermal hazards Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Powder Colour: BROWN

Odour:

Odour threshold:

Not available

Not available

Not available

Melting point/range (°C): 1597°C (Triiron tetraoxide)

Boiling point/range (°C):

Not applicable

Flash point (°C):

Not applicable

Evaporation rate: Not applicable

Flammability (solid, gas);

Non flammable
Ignition temperature (°C):

Not determined

Upper/lower flammability/explosive limits: Not determined

Vapour pressure (20°C) : Not applicable

Vapour density: Not determined

Relative Density (25°C): 5.17 kg/L (Triiron tetraoxide)

Bulk density (kg/m³): Not determined

Water solubility (g/l) at 20°C : <1 μ g/L Fe (Triiron tetraoxide)

n-Octanol/Water (log Po/w) : Not applicable

Auto-ignition temperature: >400°C (Triiron tetraoxide)

Decomposition temperature:

Viscosity, dynamic (mPa s):

Not applicable

Explosive properties:

Not explosive

Oxidising properties: No relevant oxidizing properties

9.2. Other information:



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> Fat solubility(solvent- oil to be specified) etc: Not available Surface tension: Not applicable Dissociation constant in water(pKa): Not available Oxidation-reduction Potential: Not available

Section 10 Stability and reactivity

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

The product is stable

10.3 Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Not irritating

Not classified

10.4 Conditions to avoid:

Not available

10.5 Incompatible materials:

Not known

10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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Section 11 Toxicological information

Serious eye damage/irritation:

Germ cell mutagenicity:

11.1 Information on toxicological effects

Acute toxicity:

LD50(Oral, Rat): Not available LD50(Dermal Rabbit): Not available LC50(Inhalation, Rat): Not available Skin corrosion/Irritation: Not irritating

Respiratory or skin sensitization: Not classified

Carcinogenicity: Not classified

Not classified reproductive toxicity: **STOT- single exposure:** Not classified STOT-repeated exposure: Not classified Not classified Aspiration hazard:

Section 12 Ecological information



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12.1 Toxicity:

Acute t	oxicity	Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

12.2 Persistence and degradability:Not available.12.3 Bioaccumulative potential:Not available.12.4 Mobility in soil:Not available.12.5 Results of PBT&vPvB assessment:Not applicable.12.6 Other adverse effects:Not available.

Section 13 Disposal considerations

13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Section 14 Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport	
			(ICAO/IATA)	
UN-Number:	Not applicable	Not applicable	Not applicable	
UN Proper shipping name:	Not applicable	Not applicable	Not applicable	
Transport hazard Class:	Not applicable	Not applicable	Not applicable	
Packaging group:	Not applicable	Not applicable	Not applicable	
Environmental hazards:	No	No	No	
Special precautions for user:	See section 2.2	See section 2.2	See section 2.2	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable	Not applicable	Not applicable	

Section 15 Regulation information

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

Relevant information regarding authorization: Not applicable.

Relevant information regarding restriction: Not applicable.

Other EU regulations: Employment restrictions concerning young person must be observed.

For use only by technically qualified individuals.

Other National regulations: Not applicable

15.2 Chemical Safety Assessment has been carried YES NO X

Section 16 Other information



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16.1 Indication of changes Version 1.1 Amended by EU No 453/2010

Version 1.2 Amended by EU No 2015/830

16.2 Training instructions:

Not applicable.

16.3 Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.4 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.



