

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Iron Oxide (Fe3O4) Powder Synonyms Triiron tetraoxide, Ferrous ferric oxide, Black iron oxide, Magnetite, Triiron tetroxide Chemical Name Iron (II,III) oxide **Chemical Formula** Fe3O4 CAS No. 1317-61-9 EC No. 215-277-5 Not available. Index No. REACH Registration No. Not applicable. 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified Use(s) PC21 Laboratory chemicals, Research and development use only

1.3 Details of the supplier of the safet Company Identification Address of Supplier	y data sheet Ossila Limited Solpro Business Park Windsor Street Sheffield
Postal code Telephone: E-mail Office hours 1.4 Emergency telephone number Emergency Phone #	S4 7WB, UK +441142999180 info@ossila.com 08:00 - 17:00 +44 (0) 20 3885 0382 (CHEMTREC)

Other Regions	Emergency Phone Number (CHEMTREC)
Europe, Middle East, Africa	+44 20 3885 0382
North America	+1 703 527 3887
Central America	+52 55 8526 4930
South America	+55 11 4349 1359
Asia, India, and Oceania	+65 3163 8374

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

2.4 Additional Information

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No components need to be disclosed according to the applicable regulations. 3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures				
General Advice	First aiders should ensure they have taken adequate steps to protect themselves			
	from exposure (see Section 8 for recommended personal protection equipment)			
	Show this safety data sheet to the doctor in attendance.			
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical			
	advice/attention if you feel unwell.			
Skin Contact	Rinse skin with water. If skin irritation occurs, get medical advice/attention.			
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present			
	and easy to do. Continue rinsing.			
Ingestion	Rinse out mouth with water. Get medical advice/attention if you feel unwell.			
4.2 Most important symptoms and effects, both acute and delayed				
	Most important symptoms and effects, both acute and delayed, are included on			
	labelling (Section 2.2) and in Section 11.			
4.3 Indication of any immediate medic	al attention and special treatment needed			

Treat symptomatically.



SECTION 5: FIREFIGHTING MEASURES		
5.1 Extinguishing media		
Suitable Extinguishing media	As appropriate for surrounding fire.	
Unsuitable extinguishing media	As appropriate for surrounding fire.	
5.2 Special hazards arising from the s	substance or mixture	
	Iron oxides	
5.3 Advice for firefighters		
	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.	
SECTION 6: ACCIDENTAL RELEASE M	IEASURES	
6.1 Personal precautions, protective	equipment and emergency procedures	
	Follow safe handling advice and personal protective equipment recommendations	
	(as per section 8). Provide adequate ventilation.	
6.2 Environmental precautions		
·	Avoid release to the environment.	
6.3 Methods and material for containr	nent and cleaning up	
	Sweep up spilled substance but avoid making dust. Use vacuum equipment for	
	collecting spilt materials, where practicable. Dispose of contents in accordance with	
	local, state or national legislation.	
6.4 Reference to other sections		
	See Also Section 8, 13.	
SECTION 7: HANDLING AND STORAG	E	
7.1 Precautions for safe handling		
Advice on safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-	
	ventilated area. Wear protective clothing as per section 8.	
Hygiene measures	Keep away from food and drink. Wash hands after handling, before breaks, and at	
	the end of workday.	
7.2 Conditions for safe storage, inclue		
	Store in a well-ventilated place. Keep container tightly closed.	
Storage temperature	Ambient.	
Storage life	Stable under normal conditions.	
Incompatible materials	None known.	
7.3 Specific end use(s)		
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated	

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

UK – EH40 Workplace Exposure Limits (WEL).

SUBSTANCE.	CAS No.	LTEL (8 hr	LTEL (8 hr	STEL (ppm)	STEL (mg/m ³)	Note
		TWA ppm)	TWA mg/m³)			
Iron oxide, fume (as Fe) 1	317-61-9		5			
Region Source EU EU Occupational Exposure United Kingdom UK Workplace Exposure Lin 8.2 Exposure controls		edition, published 2	2018)			
8.2.1. Appropriate engineering contr		s Ensure adequate ventilation and/or exhaust. A washing facility/water for skin cleaning purposes should be present.		cility/water for eye	and	
8.2.2. Personal protection equipmen	t					
Eye Protection Wear eye		ear eye protection with side protection tested and approved under appropriate				
	governmer	government standards such as EN166 (EU).		J).		
Hand protection Ha		Handle with gloves. Gloves must be inspected prior to use and proper glove removal				
		techniques should be used. The selected protective gloves have to satisfy the				
	specificatio	ons of Regulation	on (EU) 2016/42	5 and the standa	rd EN 374 derive	d from
Body protection Choo		Choose body protection in relation to its type, to the concentration and amount of				
			nd to the specific			
Respiratory protection	No personal respiratory protection is necessary under normal circumsta		mal circumstances	S.		
respiratory protection	None known.					
Thermal hazards						

9.1 Information on basic physical and chemical properties

and chemical properties
Solid: Powder.
Dark Orange/Brown.
Not known.
Not known.
1538 °C



Initial boiling point and boiling range	Not known.
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	Not known.
Auto-ignition temperature (°C)	Not known.
Decomposition temperature (°C)	Not known.
pH	Not known.
Kinematic viscosity	Not known.
Solubility(ies)	Solubility (Water): Not known.
	Solubility (Other): Not known.
Partition coefficient: n-octanol/water (log	
value)	
Vapour pressure	Not known.
Density	Not known.
Relative density	Not known.
Relative vapour density	Not known.
Particle characteristics	Not known.
9.2 Other information	
	None.
SECTION 10: STABILITY AND REACTIV	/ITY
10.1 Reactivity	None anticipated.
10.2 Chemical Stability	
·· ·····,	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactior	8
-	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produ	icts
	In the event of fire: see Section 5.
SECTION 11: TOXICOLOGICAL INFOR	
	MATION
11.1 Information on toxicological effe	MATION cts
11.1 Information on toxicological effe Acute toxicity - Ingestion	MATION cts No data available
11.1 Information on toxicological effe Acute toxicity - Ingestion Acute toxicity - Skin Contact	MATION cts No data available No data available
11.1 Information on toxicological effe Acute toxicity - Ingestion Acute toxicity - Skin Contact Acute toxicity - Inhalation	MATION cts No data available No data available No data available
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 11.1 Information on toxicological effe Acute toxicity - Ingestion Acute toxicity - Skin Contact Acute toxicity - Inhalation Skin corrosion/irritation Serious eye damage/irritation Skin sensitization data Respiratory sensitization data Germ cell mutagenicity Carcinogenicity Reproductive toxicity Lactation STOT - single exposure STOT - repeated exposure STOT - repeated exposure Aspiration hazard 11.2.1 Endocrine disrupting properties 11.2.2. Information on other hazards SECTION 12: ECOLOGICAL INFORMA 	MATION cts No data available No must be
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11.1 Information on toxicological effe Acute toxicity - Ingestion Acute toxicity - Skin Contact Acute toxicity - Inhalation Skin corrosion/irritation Serious eye damage/irritation Skin sensitization data Respiratory sensitization data Germ cell mutagenicity Carcinogenicity Reproductive toxicity Lactation STOT - single exposure STOT - repeated exposure Aspiration hazard 11.2 Information on other hazards 11.2.1 Endocrine disrupting properties 11.2.2. Information on other hazards SECTION 12: ECOLOGICAL INFORMATION 12.1 Toxicity Toxicity - Aquatic invertebrates Toxicity - Fish	MATION cts No data available
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12.3 Bioaccumulative potential No data available

No data available

12.4 Mobility in soil



12.5 Results of PBT and vPvB assessi	nent
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties	Not known.
12.7 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDERAT	IONS
13.1 Waste treatment methods	
13.2 Additional Information	Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator.
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORMATI	ON
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFORMA	TION
European Regulations - Authorisations a Candidate List of Substances of Very High Concern for Authorisation REACH: ANNEX XIV list of substances subject to authorisation REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals	Not listed Not listed Not listed
National regulations	Notkoowo
Other 15.2 Chemical Safety Assessment	Not known.
-	A REACH chemical safety assessment has not been carried out.
SECTION 16: OTHER INFORMATION	

The following sections contain revisions or new statements:

LEGEND

Acronyms	ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Intermediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration



REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative

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