

Synthetic Iron Oxide

PJ375

Date of Issue: - January 2018

REACH Format Data Sheet/ Product does not require an SDS under REACH

SECTION 1. Identification of Substance and and Company Information

Product Group: Synthetic Iron Oxide
REACH Registration No(s). 01-2119457646-28
Product Code: PJ375
Supplier Name: Procter Johnson, Excelsior Works, Castle Park, Flint, Flintshire CH6 5NT, United Kingdom
E-Mail: info@procterjohnson.com
Emergency Telephone : +44(0)1352 732157 (Office Hours)
Field of Application: Cement and Cementitious based products.

SECTION 2. Hazards Identification

2.1 Classification of the substance or mixture:

Regulation (EC) No. 1272/2008[CLP/GHS] Not Classified
Directive 67/548/EEC[DSD] Not Classified

2.2 Label Elements:

Hazard Pictograms Not Applicable.
Signal Word No signal word.
Hazard Statements No Known significant effects or critical hazards.

Precautionary Statements:

Prevention Not applicable
Response Not applicable
Storage Not applicable
Disposal Not applicable

2.3 Other Hazards:

Other Hazards which do not result in classification Handling and/or processing may generate dust which can cause mechanical irritation of the eyes, skin, nose and throat.

SECTION 3. Composition/ Information on Ingredients

Product Definition (REACH): 01-2119457646-28

Component(s):	CAS No.(s)	Reg(EC) No. 1272/2008 [CLP/GHS]	Directive 67/548/EEC [DSD]	Listed EH40/ 2005	Weight (%)
Synthetic Iron Oxide Fe3O4	1317-61-9	Not Classified	Not Classified	No	>90
n/a	n/a	n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0
n/a	n/a	n/a	n/a	n/a	0

Within the present knowledge of the supplier this product does not contain any hazardous ingredients in quantities requiring reporting in this section, in accordance with EU or national regulations.

SECTION 4. First Aid

4.1 Description of First Aid Measures

Inhalation: Move exposed person to fresh air. Keep casualty warm and resting. If not breathing commence appropriate first aid. If unconscious place in the recovery position and seek medical help. Maintain an open airway - loosen tight clothing. Seek medical advice if symptoms occur.

Ingestion: No special measures required.

Skin Contact: No special measures required.

Eye Contact: Flush with copious amounts of water for at least 10 minutes. Seek medical advice if irritation persists.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for detailed information on health effects and symptoms.

4.3 Indication of any immediate medical attention and special treatments needed.

See Section 11 for detailed information on health effects and symptoms.

SECTION 5. Firefighting Measures

5.1 Extinguishing media

Suitable: Foam, Carbon Dioxide, Nitrogen, Dry Chemical or Water Spray (Fog). Water Fog is recommended.

Unsuitable: Do not use a solid stream of water as this may scatter and spread fire.

5.2 Special Hazards from the Product Hazards

None Known

Hazardous Combustion Products

None Known

5.3 Advice for Firefighters Special Precautions

Not applicable

Specific Protective Equipment

Fire Fighters should wear suitable 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.

Take no action if personal safety is at risk or if untrained. Do not allow unnecessary or untrained personnel to enter the area. Avoid breathing dust. Provide adequate ventilation and wear appropriate protective equipment. Spilt product may represent a slip hazard

6.2 Environmental Precautions

Avoid dispersal, runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution.

6.3 Methods and materials for containment and clean up.

Small Spill

Move containers from the area. Vacuum or sweep up material and place in an appropriate container. Dispose of material through an approved waste disposal contractor.

Large Spill

Move containers from the area. Avoid dispersal, runoff and contact with soil, waterways, drains and sewers. Vacuum or sweep up material and place in an appropriate container. Dispose of material through an approved waste disposal contractor.

6.4 Reference to Other Sections

Section 1 - Emergency Contact Details
Section 8 - Personal Protective Equipment
Section 13 - Additional waste Treatment Information.

SECTION 7. Handling and Storage

7.1 Precaution for Safe Handling

No special measures required

7.2. Conditions for Safe Storage inc. any Incompatibilities No special measures required

7.3 Specific End Use(s)

Recommendations No specific recommendations.

Sector Specific Solutions Not available.

SECTION 8. Exposure Controls/ Personal Protection

8.1 Control Parameters

Ingredient Name	Inhalable 8HrTWA/ mg/m³	STEL/ mg/m³	Respirable 8HrTWA/ mg/m³
Iron Oxide (Not Listed - Suggested Values)	10.0	n/a	4
-	-	-	0
-	-	-	0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
Conclusion/Summary	10.0		

Occupational Exposure Limits:Ref
EH40/2005 (United Kingdom(UK),
8/2007

Derived Effect Levels

Based on:	Type	Exposure	Value/ mg/m ³	Population
Iron Oxide	DNEL	Short Term Inhalation	not available	Workers
	DNEL	Long Term Inhalation	not available	Workers
	DNEL	Long Term Inhalation	not available	Consumers
Conclusion/ Summary	Not Available			

Predicted Effect Concentrations

Ingredient Name	Type	Compartment Detail	Value
Based on:	PNEC	Soil	-
Iron Oxide	PNEC	Sewage Treatment Plant	-
	PNEC	Marine Water Sediment	-
	PNEC	Marine Water	-
	PNEC	Intermittent Release	-
	PNEC	Fresh Water Sediment	-
	PNEC	Fresh Water Sediment	-

Conclusion/ Summary: not available

Recommended Monitoring procedures

If this product contains ingredients with exposure limits then personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation, control procedure and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN689 for methods for the assessment of exposure by inhalation to chemical agents. National guidance documents should be consulted for methods for the determination of hazardous substances.

8.2. Exposure Controls

Occupational Exposure Controls

Technical Measures Ensure adequate ventilation to maintain below occupational exposure limits. If operations generate dust, fumes, gas, vapours or mist use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal Protection Limits

Respiratory Protection The use of suitable approved dust masks is recommended and should always be used where exposure is likely to exceed any specified exposure limits.

Hand Protection	Wear protective gloves to prevent soiling. Barrier cream can be used before handling this product. Hands and exposed skin should be washed with mild soap and water.
Eye Protection	Safety eyewear, complying with an approved standard, should be used where a risk assessment indicates this is necessary to avoid splashes, mists, gases or dusts. If operating conditions cause high dust concentrations to be created use dust goggles.
Skin Protection	Protective equipment should be selected based on the tasks involved and the risk assessment of the process and should be approved by a specialist. Clothing should be changed daily and not allowed to leave the workplace.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practices. Wash hands, forearms and face after handling chemical products, before eating smoking or using the lavatory and shower at the end of each working day. Contaminated clothing should be washed prior to re-use. Eyewash stations and emergency showers should be available close to the working location.
<u>Environmental Exposure Control- Technical Measures</u>	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 engineered modifications to the process equipment will be necessary to reduce emissions to an acceptable level.

SECTION 9. Physical and Chemical Properties

General Information

Appearance	Physical State	Powder
	Colour	Black
	Odour	Odourless

Important Health, Safety and Environmental Information.

pH	4 - 8
Melting Point	> 1000°C
Bulk Density	0.3 - 1.2 g/cm ³
Solubility	<0.1 g/l (water, pH6)

SECTION 10. Stability and Reactivity

10.1 Reactivity	No specific test data is available for this product.
10.2 Chemical Stability	The product is stable.
10.3 Hazardous Reactions	Under normal conditions of handling and use hazardous reactions will not occur.
10.4 Conditions to Avoid	No Specific Data
10.5 Incompatible Materials	No Specific Data
10.6 Hazardous Decomposition Products	Under normal conditions of handling and use hazardous decomposition products should not be produced.

SECTION 11. Toxicological Information

<u>Potential Acute Health Effects</u>	Exposure to airborne concentrations in excess of statutory or recommended exposure limits may cause irritation of the eyes
<u>Acute Toxicity Based on:</u>	Iron Oxide
Oral LD50	LD50/ Oral, Rat > 5000mg/kg
Inhalation LC50 Inhalation Dusts and Mists	No data available.

Dermal LD50 No data available.

STOT - Single Exposure No data available.

Irritation/Corrosion Based on: **Iron Oxide**

Skin Non-irritating.

Eyes Non-irritating.

Respiratory Non-irritating.

Sensitization Based on: Iron Oxide

Skin Not sensitizing

Respiratory Not sensitizing

Potential Chronic Health Effects

Mutagenicity Based on: Iron Oxide
No data available.

Chronic Effects: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

SECTION 12. Ecological Information

Aquatic Toxicity Based on: Iron Oxide

LC50 (96hrs) > 1000mg/l. 96 hrs, Fish (Leuciscus idus)

EC50 (3hrs) -

Environmental Fate Based on: **Iron Oxide**

Mobility No data available

Bioaccumulation No data available

Persistence/ Degradability Not expected to degrade

PBT & vPvB Assessment This substance does not meet the criteria for PBT or vPvB

Other Adverse Effects No other data available

SECTION 13. Disposal Considerations

Product

Methods of Disposal Examine possibilities of re-use. Product residues and contaminated containers should be sealed, labelled and disposed of or recycled in accordance with relevant regulations. For larger quantities contact the supplier. The recipient of any waste should be notified of any possible hazards. Within the EC the appropriate code from the European Waste List (EWL) should be used.

Hazardous Waste Within the present knowledge of the supplier this product is not regarded as hazardous waste as defined by EU Directive 91/689/EEC

SECTION 14. Transport Information

	ADR/RID	AND/ADNR	IMDG
UN No.	-	-	-
UN Proper Shipping Name	-	-	-
Transport Hazard Class(es) Marks	-	-	-

Packing Group	-	-	-
Environmental Hazards	No	No	No
Special Precautions for user/ Additional Information	Not Regulated	Not Regulated	Not Regulated

SECTION 15. Regulatory Information

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on manufacture, placing on the market, and use of certain dangerous substances, mixture and articles. Not Applicable

Annex XIV - List of substances subject to authorisation - Substances of very high concern. None of the components are listed.

SECTION 16. Other Information

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