

Iron Oxide Blend

Arc Powder Mortar Tone Red

Date of Issue: - Sept 2021

**Safety Data Sheet**

**SECTION 1. Identification of Substance and and Company Information**

**Product Group:** Iron Oxide Blend  
**REACH Registration No(s).** n/a - mixture (See Section3 for Composition)  
**Product Code:** CCBR001  
**Supplier Name:** Arc Building Products, IDA Business & Tech Park, Ballynattin, Arklow, Co. Wicklow, Ireland.  
**E-Mail:** sales@arcbuildingproducts.ie  
**Emergency Telephone :** +353 (0)402 32370 (Office Hours Only)s)  
**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):** n/a - mixture (See Section3 for Composition)

Component(s):	CAS No.(s)	Reg(EC) No. 1272/2008 [CLP/GHS]	REACH Number	Listed EH40/2005	Weight (%)
Calcium Carbonate (Limestone)	1317-65-3	Not Classified	Exempt Article 2(7)b	Yes	62-66
Triiron Tetraoxide	1317-61-9	Not Classified	01-2119457646-28	No	<4
Diiron Trioxide	1309-37-1	Not Classified	01-2119457614-35	No	31-35
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**

Keep in a dry, cool, well ventilated area. Do not store together with acids. Keep in properly labelled containers.

**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**

<b>Ingredient Name</b>	<b>Inhalable 8HrTWA/ mg/m<sup>3</sup></b>	<b>STEL/ mg/m<sup>3</sup></b>	<b>Respirable 8HrTWA/ mg/m<sup>3</sup></b>
Calcium Carbonate	10.0	n/a	4
Iron Oxide (Not Listed - Suggested Values)	10.0	n/a	4
-	-	-	0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
<b>Conclusion/Summary</b>	<b>10.0</b>		

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

**Derived Effect Levels**

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

**Predicted Effect Concentrations**

<b>Ingredient Name</b>	<b>Type</b>	<b>Compartment Detail</b>	<b>Value</b>
Based on:	PNEC	Soil	-
<b>Iron Oxide</b>	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.

<b>Hand Protection</b>	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.
<b>Eye Protection</b>	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.
<b>Skin Protection</b>	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.
<b>Hygiene Measures</b>	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.
<b><u>Environmental Exposure Control- Technical Measures</u></b>	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

<b>Appearance</b>	Physical State	Powder
	Colour	Red
	Odour	Odourless

### Important Health, Safety and Environmental Information.

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

## SECTION 10. Stability and Reactivity

<b>10.1 Reactivity</b>	Will react vigorously with acids
<b>10.2 Chemical Stability</b>	The product is stable.
<b>10.3 Hazardous Reactions</b>	Under normal conditions of handling and use hazardous reactions will not occur.
<b>10.4 Conditions to Avoid</b>	Keep away from acids.
<b>10.5 Incompatible Materials</b>	Acids
<b>10.6 Hazardous Decomposition Products</b>	Carbon Dioxide in contact with acids.

## SECTION 11. Toxicological Information

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

<b>Dermal LD50</b>	No data available.
<b>STOT - Single Exposure</b>	No data available.
<b><u>Irritation/Corrosion Based on:</u></b>	<b>Iron Oxide</b>
<b>Skin</b>	Non-irritating.
<b>Eyes</b>	Non-irritating.
<b>Respiratory</b>	Non-irritating.
<b><u>Sensitization Based on:</u></b>	Iron Oxide
<b>Skin</b>	Not sensitizing
<b>Respiratory</b>	Not sensitizing
<b><u>Potential Chronic Health Effects</u></b>	
<b>Mutagenicity Based on:</b>	Iron Oxide No data available.
<b>Chronic Effects:</b>	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

**SECTION 12. Ecological Information**

<b><u>Aquatic Toxicity Based on:</u></b>	Iron Oxide
<b>LC50 (96hrs)</b>	> 1000mg/l. 96 hrs, Fish (Leuciscus idus)
<b>EC50 (3hrs)</b>	-
<b><u>Environmental Fate Based on:</u></b>	<b>Iron Oxide</b>
<b>Mobility</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Persistence/ Degradability</b>	Not expected to degrade
<b>PBT &amp; vPvB Assessment</b>	This substance does not meet the criteria for PBT of vPvB
<b>Other Adverse Effects</b>	No other data available

**SECTION 13. Disposal Considerations**

<b><u>Product</u></b>	
<b>Methods of Disposal</b>	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.
<b>Hazardous Waste</b>	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**

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

**Marks**

<b>Packing Group</b>	-	-	-
<b>Environmental Hazards</b>	No	No	No
<b>Special Precautions for user/ Additional Information</b>	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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