

Trade name: **Pigment Type 663**

brown

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1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY

1.1 Product identifier

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1.2 Relevant identified uses of the substance or mixture and uses advised against

The product is a colourant for colouring concrete.

1.3 Details of the supplier providing the safety data sheet

Manufacturer/Supplier:

Backstein Engineering GmbH
Langgasse 21
D-65510
Idstein,
Germany
Tel. +49 (0) 6434/9089115
Email: shop@moertelshop.com

1.4 Emergency number

Joint Poisons Information Centre (GGIZ) for the federal states of Mecklenburg-Western Pomerania, Saxony, Saxony-Anhalt and Thuringia
GGIZ's 24-hour German-language emergency number: Telephone number +49 361 730730
For Austria: Poison Information Centre of Gesundheit Österreich GmbH: Telephone number +43 1 406 43 43

2 POTENTIAL HAZARDS

2.1 Classification of the substance or mixture in accordance with Regulation (EC) No 1272/2008

The product is not subject to classification according to GHS criteria.

2.2 Labelling elements in accordance with Regulation (EC) No 1272/2008

2.2.1 Pictograms and signal word for the product

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The product is not subject to labelling requirements under GHS criteria.

2.2.2 Hazard-determining components for labelling

Not applicable

2.2.3 Hazard statements

Not applicable

2.2.4 Precautionary statements

Not applicable

2.3 Other hazards

Not applicable

3 COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

3.2.1 Composition/Information on constituents

This product is a mixture of Fe_2O_3 and Fe_3O_4 .

3.2.2 Hazardous ingredients

No specific hazards known

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4 FIRST AID MEASURES

4.1 Description of first-aid measures

4.1.1 General information

No special personal protective equipment is required for first aiders. However, you should take care to ensure your own safety and, if necessary, change any contaminated clothing.

Consult a doctor if any health problems arise.

4.1.2 After skin contact

Wash thoroughly with soap and water.

4.1.3 After eye contact

Rinse immediately with clean water for at least 15 minutes; consult an ophthalmologist.

4.1.4 If inhaled

Move the person to fresh air. Consult a doctor if symptoms persist.

4.1.5 If swallowed

Rinse mouth immediately, then drink plenty of water. Induce vomiting only if advised to do so by medically trained personnel.

4.2 Most important acute and delayed symptoms and effects

Symptoms: The most important known symptoms and effects are described on the product label (see Section 2) and/or in Section 11.

4.3 Indications for immediate medical attention or specialised treatment

Treatment: Symptomatic treatment (decontamination, monitoring of vital signs); no specific antidote is known.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing agents

The product is not flammable, either in its as-supplied state or when mixed and ready for use. Extinguishing media and fire-fighting measures must be tailored to the surrounding fire.

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5.2 Specific hazards arising from the substance or mixture

The product is neither explosive nor flammable, nor does it promote combustion in other materials.

5.3 Guidance on firefighting

No special measures are required, as the product does not pose a fire hazard.

6 MEASURES IN THE EVENT OF ACCIDENTAL RELEASE

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generating dust. Avoid contact with skin and eyes. Ensure adequate ventilation. Do not breathe in dust.

6.2 Environmental protection measures

No special measures required.

6.3 Methods and materials for containment and cleaning

Collect mechanically to remove dust.

6.4 Reference to other sections

For information on safe handling, see Section 7. For information on personal protective equipment, see Section 8. For information on disposal, see Section 13

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Guidance on safe handling

Avoid the formation of dust.

7.1.2 Fire and explosion prevention instructions

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7.1.3 Guidance on general hygiene measures

Do not eat, drink or smoke whilst working.

7.2 Conditions for safe storage, taking incompatibilities into account

7.2.1 Requirements for storage areas and containers

Store only in the unopened original container. Keep containers tightly closed.

7.2.2 Storage compatibility

Can be stored together with other substances.

7.2.3 Further information on storage conditions

No further relevant information available

7.2.4 Storage class

VCI storage class: 13. Non-flammable solid. GISCODE ZP1

8 EXPOSURE CONTROLS AND MONITORING / PERSONAL PROTECTIVE EQUIPMENT

8.1 Parameters to be monitored

Not applicable

8.2 Exposure control and monitoring

8.2.1 Appropriate engineering controls

Engineering controls and the use of appropriate working practices take precedence over the use of personal protective equipment. Ensure good ventilation. This can be achieved by local extraction or general exhaust ventilation.

8.2.2 General safety and hygiene measures

Do not inhale dust. Do not eat or drink whilst working. Remove soiled clothing and wash it before re-use. Keep street clothes separate from work clothes.

8.2.3 Respiratory protection

Wear an FFP 2 dust mask if dust is generated.

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8.2.4 Skin protection

Wear protective gloves.

8.2.5 Eye protection

Safety goggles with side protection (framed goggles) (e.g. EN 166)

8.3 Limiting and monitoring environmental exposure

8.3.1 Air

No special measures required.

8.3.2 Water

No special measures required.

8.3.3 Soil

No special measures required.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Brown solid in powder form
Odour	Odourless
Melting point	Melting point > 1000°C
Boiling point	Not determined
Flash point	Flash
Spontaneous combustion hazard	Non-flammable
	The product is not self-igniting. Explosion
	The product is not explosive. Density
	4.8 g/cm ³
Solubility in water	Insoluble
Organic solvents	0.0 %
Solid content	100 %
Other information	No further relevant information available

10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions occur provided the instructions for storage and handling are followed,

Does not have a corrosive effect on metal.

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10.2 Chemical stability

Chemically stable mineral

10.3 Potential for hazardous reactions

The product is stable provided the storage and handling instructions are followed.

10.4 Conditions to avoid

At temperatures above 80°C, the product may become unstable and oxidise. This generates additional heat, which, under unfavourable conditions, may lead to the ignition of flammable materials. The product should therefore not be stored near sources of heat.

10.5 Incompatible materials

No further relevant information available

10.6 Hazardous decomposition products

No hazardous decomposition products provided that the regulations/instructions for storage and handling are followed

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Based on the available data, the classification criteria are not considered to be met

11.1.2 Primary irritant

effect On the skin

Based on the available data, the classification criteria are not met

To the eyes

Based on the available data, the classification criteria are not met

11.1.3 Sensitisation

Based on the available data, the classification criteria are not met

11.1.4 Mutagenicity

Based on the available data, the classification criteria are not met

11.1.5 Carcinogenicity

Based on the available data, the classification criteria are not met

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11.1.6 Reproductive toxicity

Based on the available data, the classification criteria are not considered to be met

11.1.7 Additional toxicological information

No further relevant information is available

12 ENVIRONMENTAL INFORMATION

12.1 Toxicity

No specific hazards known

12.2 Persistence and degradability

No specific hazards known

12.3 Bioaccumulation potential

No specific hazards known

12.4 Mobility in soil

Negligible

12.5 Results of the PBT and vPvB assessment

The product does not meet the criteria for PBT (persistent, bioaccumulative, toxic) and vPvB (very persistent, very bioaccumulative).

12.6 Other adverse effects

None known

13 DISPOSAL INSTRUCTIONS

13.1 Waste treatment procedures

13.1.1 Recommendation

Absorb spilled material whilst dry and, where possible, reuse or recycle it. Waste treatment techniques are not required. Mix contaminated material with water and allow it to harden. Dispose of in accordance with official regulations. Must not be disposed of with household waste. Do not discharge into waste water or surface water. Do not allow to enter the sewerage system.

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13.1.2 Waste code according to the European Waste Catalogue

European waste code No. 40217

13.1.3 Uncleaned packaging

Dispose of in accordance with regulatory requirements.

14 TRANSPORT INFORMATION

The product is not subject to international dangerous goods regulations (IMDG, IATA, ADR/RID). No dangerous goods classification is therefore required.

14.1 UN number

Not applicable

14.2 Proper UN shipping name

Not applicable

14.3 Transport hazard classes

Not applicable

14.4 Packaging group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for users

Not applicable

14.7 Transport in bulk in accordance with Annex II of the MARPOL Convention 73/78 and the IBC Code

Not applicable

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15 LEGAL PROVISIONS

15.1 Regulations on safety, health and environmental protection / specific legal provisions for the substance or mixture

15.1.1 EU regulations

Directive 2012/18/EU, Specifically listed hazardous substances – ANNEX I: None of the ingredients are present.

15.1.2 National regulations

Water hazard class: not hazardous to water

15.1.3 Other regulations, restrictions and prohibitions

None known

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

16 OTHER INFORMATION

16.1 General

All information is based on our current state of knowledge; however, it does not constitute a guarantee of product properties and does not give rise to any contractual relationship.

16.2 Wording of the hazard statements (in accordance with Regulation (EC) No 1272/2008) referred to in Sections 2 and 3

Flamm. Liq. 2 [H225] – Flammable liquids, Category 2: Liquid and vapour highly flammable

Flam. Liq. 3 [H226] – Flammable liquids, Category 3: Liquid and vapour are flammable Flam. Sol. 2

[H228] – Flammable solids, Category 2: Flammable solid

Met. Corr. 1 [H290] – Substances or mixtures corrosive to metals: May be corrosive to metals

Acute Tox. 3 [H301] – Acute toxicity Category 3: Toxic if swallowed

Acute Tox. 4 [H302] – Acute toxicity Category 4: Harmful if swallowed

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Asp. Tox. 1 [H304] – Aspiration hazard Category 1: May be fatal if swallowed and enters the respiratory tract

Acute Tox. 4 [H312] – Acute toxicity Category 4: Harmful if in contact with skin

Skin. Corr. 1A [H314] – Skin corrosion / skin irritation Category 1A: Causes severe skin burns and serious eye damage

Skin. Irrit 2 [H315] – Skin corrosion / skin irritation Category 2: Causes skin irritation

Skin Sens. 1 [H317] – Skin sensitisation Category 1: May cause allergic skin reactions

Eye Dam. 1 [H318] – Serious eye damage/eye irritation Category 1: Causes serious eye damage

Acute Tox. 3 [H330] – Acute toxicity Category 3: Life-threatening if inhaled

Tox. 3 [H331] – Acute toxicity Category 3: Toxic if inhaled

Acute Tox. 4 [H332] – Acute toxicity Category 4: Harmful if inhaled

STOT SE 3 [H336] – Specific target organ toxicity (single exposure) Category 3: May cause drowsiness and dizziness

STOT RE 2 [H373] – Specific Target Organ Toxicity (repeated exposure) Category 2: May cause damage to organs through prolonged or repeated exposure (following prolonged or repeated inhalation, skin contact or ingestion)

Aquatic Acute 1 [H400] – Hazardous to aquatic life Category 1: Very toxic to aquatic organisms

Aquatic Chronic 2 [H411] – Chronically hazardous to the aquatic environment, Category 2: Toxic to aquatic organisms with long-term effects

16.3 Abbreviations and acronyms

[ADR] International Regulations concerning the Transport of Dangerous Goods by Rail [

AGW] Occupational Exposure Limit

[AwSV] Ordinance on Installations for the Handling of Substances Hazardous to

Water [BGR] Occupational Safety and Health Association Regulation

[BimSchV] Ordinance on the Implementation of the Federal Immission Control

Act [CAS] Chemical Abstracts Service

[DIN] Standard of the German Institute for

Standardisation [EC] Effective concentration

[EC] European Community

[EINECS] European Inventory of Existing Commercial Chemical

Substances [EN] European Standard

[GHS] Globally Harmonised System of Classification and Labelling of Chemicals

[IATA-DGR] International Air Transport Association – Dangerous Goods

Regulations [IBC Code] International Code for the Construction and Equipment of

Ships Carrying Dangerous Chemicals in Bulk

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[ICAO-TI] International Civil Aviation Organisation – Technical Instructions
[IMDG Code] International Maritime Dangerous Goods Code
[ISO] Standard of the International Organisation for Standardisation
[IUCLID] International Uniform Chemical Information Database
[LC] Lethal concentration
[LD] Lethal Dose
[log Kow] Partition coefficient between octanol and water
[MARPOL] Maritime Pollution Convention = Convention for the Prevention of Marine Pollution by Ships
[OECD] Organisation for Economic Co-operation and Development
[PBT] Persistent, bioaccumulative, toxic
[REACH] Registration, Evaluation and Authorisation of Chemicals (Regulation (EC) No 1907/2006)
[RID] International Regulations concerning the Carriage of Dangerous Goods by Rail
[SDS] Safety Data Sheet
[STOT] Specific target organ toxicity [TRGS] Technical Rules for Hazardous Substances
[UN] United Nations
[VOC] Volatile Organic Compounds
[vPvB] very persistent and very bioaccumulative [VwVwS] Administrative Regulation on Substances Hazardous to Water
[WGK] Water Hazard Class