kilnher group®

SAFETY DATA SHEET
MORTAR CEMHER

Safety Data Sheet according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Product:
MICRODUR

Version 2.0 / 03/02/2024

Replaces all previous versions

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: MICRODUR

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

1.2.1 Relevant identified uses

Main use category: Industrial use. Professional use

Industrial/Professional use spec: Construction materials

Use of the substance/mixture: MORTAR

Function or use category: Construction materials

1.2.2 Uses advised against

No additional information available

1.3 Details of the supplier of the safety data sheet

Company: PINTURAS KILNHER
Address: Pol. Ind. La Figuera, C/LLanterners, 44. 46394
City: ALACUAS
Province: VALENCIA
Telephone: (+34) 961 505 024
Fax: (+34) 961 505 024
E-mail: kilnher@kilnher.com
Web: www.kilnher.com

1.4 Emergency telephone number

(+34) 961 505 024 (Only available during office hours; Monday-Friday; 07:00-15:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard class	Hazard category	Indications of danger
Serious eye damage/eye irritation	1	H318

* Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. Causes serious eye damage.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)

GHS05

Signal word (CLP)
Danger

Contains
Portland cement

Hazard statements (CLP)

H318 - Causes serious eye damage.

Precautionary statements (CLP)

P102 - Keep out of reach of children.
P280 - Wear eye protection, protective gloves.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P261 - Avoid breathing dust.

Extra phrases

Dispose of contents/container in accordance with regional/national/international/local regulations.

2.3 Other hazards

Other hazards which do not result in classification:

The product contains chromate reducer, whereby the content of water-soluble chromium (VI) is less than 0.0002%.

With proper storage (dry) and consumption within the specified storage time, a sensitizing effect of the cement / binder by contact with skin cannot occur (H317 or EUH203 can therefore be omitted).

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Portland cement (65997-15-1)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Portland cement	CAS-No.: 65997-15-1 EC-No.: 266-043-4	> 10-< 50	Skin Sens. 1, H317 Eye Dam. 1, H318 Skin Irrit. 2, H315 STOT SE 3, H335
Marble / limestone (Calcium carbonate)	CAS-No.: 1317-65-3 EC-No.: 215-279-6	> 10-< 50	Not classified
Quartz, conc respirable crystalline silica<1 % substance with a Community workplace exposure limit	CAS-No.: 14808-60-7 EC-No.: 238-878-4	> 10-< 50	Not classified

* Full text of H statements: see section 16

Comments: Chromium (VI) compounds < 2 ppm

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures after inhalation
Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact
Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion
If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact: Irritation.
Symptoms/effects after eye contact: Serious damage to eyes.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire
Unsuitable extinguishing media:high volume water jet.

5.2 Special hazards arising from the substance or mixture

Fire hazard: No fire hazard.
Explosion hazard: None.
Hazardous decomposition products in case of fire:
None.

5.3. Advice for firefighters

Precautionary measures fire: No specific measures are necessary.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Absorb spillage to prevent material damage.

6.1.1 For non-emergency personnel

Protective equipment: Precautions for safe handling. See Section 7.
Emergency procedures: Avoid contact with skin and eyes.

6.1.2 For emergency responders

Emergency procedures: No specific measures are necessary.

6.2 Environment related measures

Prevent entry to sewers and public waters.

6.3 Methods and material for containment and cleaning up

For containment: Collect spillage.
Methods for cleaning up: Mechanically recover the product. Minimise generation of dust. Collect spillage. Do not use compressed air for cleaning.

6.4 Reference to other sections

For further information refer to section 13. See Section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Additional hazards when processed: See Section 8.
Precautions for safe handling: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures: Wear protective gloves. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Protect from moisture. Store in a dry place. The product contains chromate reducer, whereby the content of water-soluble chromium (VI) is less than 0.0002%.
With proper storage (dry) and consumption within the specified storage time, a sensitizing effect of the cement / binder by contact with skin cannot occur (H317 or EUH203 can therefore be omitted).
Incompatible materials: Aluminium. ammonium salts. Acids.
Storage area: dry.

7.3 Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

Portland cement (65997-15-1)	
Occupational Exposure Limits	
Local name	Portland cement
WEL TWA (OEL TWA) [1]	10 mg/m³ 4 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2 Recommended monitoring procedures

No additional information available

8.1.3 Air contaminants formed

No additional information available

8.1.4 DNEL and PNEC

Calcium carbonate (1317-65-3)	
WEL TWA (OEL TWA) [1]	10 mg/m³

Quartz (14808-60-7)	
BOEL V (EU)	Long-term value: 0.1* mg/m3 *respirable fraction

8.1.5 Control banding

No additional information available

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2 Personal protection equipment

Eye protection		Wear closed safety glasses
Skin and body protection		Wear proper protective equipment
Hand protection		Protective gloves. The following materials are suitable for protective gloves: Nitrile impregnated cotton gloves (layer thickness of about 0,15 mm).
Respiratory protection		If the occupational exposure limit is exceeded
Thermal hazards		No additional information available

8.2.3 Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.
Other information: Use care during processing to minimize generation of dust. Avoid creating or spreading dust.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Solid
Colour: White
Appearance: Powder
Odour: odourless.
Odour threshold: Not available
Melting point: > 1250 °C
Freezing point: Not available
Boiling point: Not applicable
Flammability: Non flammable
Explosive properties: None
Oxidising properties: None.
Explosive limits: Not applicable
Lower explosive limit (LEL): Not available
Upper explosive limit (UEL): Not available
Flash point: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
pH: 11 Aqueous solution
pH solution: Not available

Viscosity, kinematic: Not available
Viscosity, dynamic: Not applicable
Solubility: Water: 0.1 – 1.5 g/l @ 20°C
Partition coefficient n-octanol/water (Log Kow): Not available
Vapour pressure: Not available
Vapour pressure at 50 °C: Not available
Density: 2. 0– 2.2 g/cm³
Relative density: Not available
Relative vapour density at 20 °C: Not available
Particle size: Not applicable
Particle size distribution: Not applicable
Particle shape: Not applicable
Particle aspect ratio: Not applicable
Particle aggregation state: Not applicable
Particle agglomeration state: Not applicable
Particle specific surface area: Not applicable
Particle dustiness: Not applicable

9.2 Other information

9.2.1 Information with regard to physical hazard classes

No additional information available

9.2.2 Other safety characteristics

VOC content: < 2 %
Bulk density: 900 – 1200 kg/m³

SECTION 10: Stability and reactivity

10.1 Reactivity

Reacts with water.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. ammonium salts. Aluminium.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral): Not classified
Acute toxicity (dermal): Not classified
Acute toxicity (inhalation): Not classified
Skin corrosion/irritation: Not classified / pH: 11.5 Aqueous solution
Serious eye damage/irritation: Causes serious eye damage / pH: 11.5 Aqueous solution
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
STOT-single exposure: Not classified
STOT-repeated exposure: Not classified
Aspiration hazard: Not classified

Portland cement (65997-15-1)	
STOT-single exposure	May cause respiratory irritation.
Viscosity, kinematic	Not applicable

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

No additional information available

11.2.2 Other information

Potential adverse human health effects and symptoms: Irritation: severely irritant to eyes

SECTION 12: Ecological information

12.1 Toxicity

Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute): Not classified
Hazardous to the aquatic environment, long-term (chronic): Not classified

Portland cement (65997-15-1)	
LC50 - Fish [1]	> 1000 mg/l (96 h, Pisces)

12.2 Persistence and degradability

Portland cement (65997-15-1)	
Bioaccumulative potential	No bioaccumulation data available.

12.3 Bioaccumulative potential

Bioaccumulative potential	Not potentially bioaccumulable.

Portland cement (65997-15-1)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.

12.4 Mobility in soil

Ecology - soil	None.
Persistence and degradability	Not applicable. Inorganic Particulate Substances.
BOD (% of ThOD)	Not applicable

Portland cement (65997-15-1)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
BOD (% of ThOD)	Not applicable

12.5 Results of PBT and vPvB assessment

PBT: not relevant	no registration required
vPvB: not relevant	no registration required

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Regional waste regulation: Disposal must be done according to official regulations.
Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.
Ecology - waste materials: Avoid release to the environment.

European List of Waste (LoW, EC 2000/532):
17 01 01 - concrete
10 13 14 - waste concrete and concrete sludge
For residues
01 04 07* - wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1 UN number		
Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name		
Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
14.4 Packing group		
Not applicable	Not applicable	Not applicable
14.5 Environmental hazards		
Not applicable	Not applicable	Not applicable

No supplementary information available

14.6 Special precautions for user

Overland transport: Not applicable
Transport by sea: Not applicable
Air transport: Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1 EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
Contains no substance(s) listed on the REACH Candidate List
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals) Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)
Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)
Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)
VOC content: < 3 %

Other information, restriction and prohibition regulations:

1. Cement and cement-containing mixtures shall not be placed on the market, or used, if they contain, when hydrated, more than 2 mg/kg (0,0002 %) soluble chromium VI of the total dry weight of the cement.

2. If reducing agents are used, then without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that the packaging of cement or cement-containing mixtures is visibly, legibly and indelibly marked with information on the packing date, as well as on the storage conditions and the storage period appropriate to maintaining the activity of the reducing agent and to keeping the content of soluble chromium VI below the limit indicated in paragraph 1.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the placing on the market for, and use in, controlled closed and totally automated processes in which cement and cementcontaining mixtures are handled solely by machines and in which there is no possibility of contact with the skin.

4.The standard adopted by the European Committee for Standardization (CEN) for testing the water-soluble chromium (VI) content of cement and cement-containing mixtures shall be used as the test method for demonstrating conformity with paragraph 1.

5.Leather articles coming into contact with the skin shall not be placed on the market where they contain chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of the leather.

6. Articles containing leather parts coming into contact with the skin shall not be placed on the market where any of those leather parts contains chromium VI in concentrations equal to or greater than 3 mg/kg (0,0003 % by weight) of the total dry weight of that leather part.

7. Paragraphs 5 and 6 shall not apply to the placing on the market of second-hand articles which were in end-use in the Union before 1 May 2015.

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2 National regulations

No additional information available

15.2 Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:		
Eye Dam. 1	Category 1	Serious eye damage/eye irritation
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H335	May cause respiratory irritation	
Skin Irrit. 2	Category 2	Skin corrosion/irritation
Skin Sens. 1	Category 1	Skin sensitisation
STOT SE 3	Category 3	Specific target organ toxicity – Single exposure, Respiratory tract irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.