

**Safety Data Sheet according to Regulation
(EC) 'No. 2020/878****SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking**

1.1	Product Identifier	0148000005AD	Revision Date:	08/09/2023
	Product Name:	Pyrocrete 241	Supersedes Date:	15/02/2023
			Version Number:	8
	UFI Code:	P7E1-Y01J-Q00W-GEDP		
	Contain nanoform:	No		
1.2	Relevant identified uses of the substance or mixture and uses advised against	Fireproofing material. Advised against: others than recommended		
1.3	Details of the supplier of the safety data sheet			
	Manufacturer:	Perlita y Vermiculita, S.L.U. C/ Garraf s/n. Polígono Industrial Can Prunera 08759 Vallirana (Barcelona) España Tel. +34 936834400 Fax. +34 936834401 info@perlitayvermiculita.com www.perlitayvermiculita.com		
	Datasheet Produced by:	Auba, Benito - ehs@stoncor.com		
1.4	Emergency telephone number:	CHEMTREC +1 703 5273887 (Outside US) Instituto Nacional de Toxicología +34 91.562.04.20		

SECTION 2: Hazards Identification**2.1 Classification of the substance or mixture**

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Skin Irritation, category 2	H315
Skin Sensitizer, category 1	H317
Serious Eye Damage, category 1	H318
STOT, single exposure, category 3, RTI	H335

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

Sodium Silicate, mica, cement, portland, chemicals

HAZARD STATEMENTS

Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Serious Eye Damage, category 1	H318	Causes serious eye damage.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.

PRECAUTION PHRASES

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII

Endocrine disrupting properties - Toxicity

Name According to EEC

CAS-No.

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

Endocrine disrupting properties - Ecotoxicity

Name According to EEC

CAS-No.

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

SECTION 3: Composition/Information On Ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Hazardous ingredients

<u>Name According to EEC</u> <u>EINEC No.</u> <u>CAS-No.</u> <u>REACH Reg No.</u>	<u>%</u>	<u>Classifications</u>	SCL Value: ATE Value: M-Factor:
cement, portland, chemicals 266-043-4 65997-15-1 No Information	25 - <50	H315-317-318-335 Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 RTI	SCL Value: - ATE Value: - M-Factor: -
mica 601-648-2 12001-26-2 -	10 - <25	H319-335 Eye Irrit. 2, STOT SE 3 RTI	SCL Value: - ATE Value: - M-Factor: -
alumina trihydrate 244-492-7 21645-51-2 01-2119529246-39	10 - <25		SCL Value: - ATE Value: - M-Factor: -

limestone 215-279-6 1317-65-3 No Information	2.5 - <10	H315-319	SCL Value:	-
			ATE Value:	-
			M-Factor:	-
Cellulose Fibers 232-674-9 9004-34-6 -	2.5 - <10		SCL Value:	-
			ATE Value:	-
			M-Factor:	-
hydroxyethyl cellulose 618-387-5 9004-62-0 No Information	1.0 - <2.5	H302-312-319-332	SCL Value:	-
			ATE Value:	-
			M-Factor:	-
Sodium Silicate 1344-09-8 No Information	1.0 - <2.5	H314-335	SCL Value:	-
			ATE Value:	-
			M-Factor:	-

quartz (silicon dioxide) 238-878-4 14808-60-7 No Information	0.1 - <1.0	H372 STOT RE 1	SCL Value:	-
			ATE Value:	-
			M-Factor:	-

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: No Information

AFTER INHALATION: Move to fresh air. Consult a physician after significant exposure.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off with soap and plenty of water.

AFTER EYE CONTACT: Rinse thoroughly with plenty of water, also under the eyelids. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses. If eye irritation persists, consult a specialist.

AFTER INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to respiratory system.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide (CO₂), carbon monoxide (CO), dense black smoke.

5.3 Advice for firefighters

The product is not flammable.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Avoid dust formation. Use personal protective equipment. Sweep up to prevent slipping hazard. Forms slippery/greasy layers with water.

6.1.2 For emergency responders

No Information

6.2 Environmental precautions

Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

No special environmental precautions required.

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

SECTION 7: Handling and Storage**7.1 Precautions for safe handling**

Use only in area provided with appropriate exhaust ventilation. Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Avoid dust formation. Protect from moisture. Avoid breathing dust or vapor. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Exposure to moisture.

STORAGE CONDITIONS: Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure Controls/Personal Protection**8.1 Control parameters****Ingredients with Occupational Exposure Limits (EU)**

<u>Name</u>	<u>CAS-No.</u>	<u>LTEL ppm</u>	<u>STEL ppm</u>	<u>STEL mg/m3</u>	<u>LTEL mg/m3</u>
cement, portland, chemicals	65997-15-1				4
mica	12001-26-2				3
alumina trihydrate	21645-51-2				
limestone	1317-65-3	N/E			10
Cellulose Fibers	9004-34-6				
hydroxyethyl cellulose	9004-62-0				15
Sodium Silicate	1344-09-8				
quartz (silicon dioxide)	14808-60-7				0.1

<u>Name</u>	<u>CAS-No.</u>	<u>OEL Note</u>
cement, portland, chemicals	65997-15-1	
mica	12001-26-2	
alumina trihydrate	21645-51-2	
limestone	1317-65-3	
Cellulose Fibers	9004-34-6	
hydroxyethyl cellulose	9004-62-0	
Sodium Silicate	1344-09-8	
quartz (silicon dioxide)	14808-60-7	

FURTHER ADVICE: Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

Chemical Name:**EC No.:****CAS-No.:****DNELs - Derived no effect level**

Route of Exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							
Inhalation								
Dermal								

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	
Fresh water sediments	
Marine water	
Marine sediments	
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	
Air	

8.2 Exposure controls**Personal Protection**

RESPIRATORY PROTECTION: Use only respiratory protection equipment with CE-symbol including four digit test number. Effective dust mask.

EYE PROTECTION: Safety glasses with side-shields.

HAND PROTECTION: Protective gloves. Long sleeved clothing. Remove and wash contaminated clothing before re-use.

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: No Information

SECTION 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

Colour:	Grey Powder
Physical State	Solid
Odor	ODORLESS
Odor threshold	Not determined
pH	
Melting point / freezing point (°C)	Not determined
Boiling point or initial boiling point and boiling range (°C)	N.D. - N.D.
Flash Point, (°C)	Not measured
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Llower and upper explosive limit	-
Vapour Pressure	
Relative vapour density	
Density and/or relative density	Not determined
Solubility in / Miscibility with water	INSOLUBLE
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined

Decomposition temperature (°C) Not determined

Kinematic viscosity

Particle characteristics Not applicable to liquids

9.2 Other information

VOC Content g/l: 0

Specific Gravity (g/cm³) 0.536

SECTION 10: Stability and Reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4 Conditions to avoid

Exposure to moisture.

10.5 Incompatible materials

Do not store near acids. Strong oxidizing agents.

10.6 Hazardous decomposition products

No Information

SECTION 11: Toxicological information

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

Acute Toxicity:

Oral LD50: No information available.

Inhalation LC50: No information available.

Dermal LD50: No Information

Irritation: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.
Data on individual components are tabulated below:

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Vapor LC50</u>	<u>Gas LC50</u>	<u>Dust/Mist LC50</u>
12001-26-2	mica	>5000 mg/kg (oral-rat)	No information	No information	No information	No information
21645-51-2	alumina trihydrate	>2000 mg/Kg (LD50, rat)			0.000	0.000

Additional Information:

The cement contained within this product may cause dermal sensitization due to the potential presence of trace amounts of hexavalent chromium. This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogen to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

11.2 Information on other hazards

Endocrine disrupting properties - Toxicity

Name According to EEC

CAS-No.

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

SECTION 12: Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):	No information
IC50 72hr (Algae):	No information
LC50 96hr (fish):	No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII

12.6 Endocrine disrupting properties

Endocrine disrupting properties - Ecotoxicity

Name According to EEC

CAS-No.

Based on the available data, the product does not contain substances identified as having endocrine disrupting properties according to Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in concentration of 0,1% or higher.

12.7 Other adverse effects:

No information

<u>CAS-No.</u>	<u>Name According to EEC</u>	<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>
65997-15-1	cement, portland, chemicals	350 mg/l		
21645-51-2	alumina trihydrate	>10000	No information	>10000 mg/l
9004-34-6	Cellulose Fibers	No information	No information	No information
9004-62-0	hydroxyethyl cellulose	No information	No information	
1344-09-8	Sodium Silicate	No information	No information	No information

SECTION 13: Disposal Considerations

- 13.1 WASTE TREATMENT METHODS:** 10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10. Waste codes should be assigned by the user based on the application for which the product was used. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal. 150110 - packaging containing residues of or contaminated by dangerous substances

European Waste Code: 101311
Packaging Waste Code: 15 01 10

SECTION 14: Transport Information

	ADR/RID	ADN	IMDG	IATA
14.1 UN-number or ID number	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name	Not regulated for transport, Not applicable	Not regulated for transport, Not applicable	Not regulated for transport, Not applicable	Not regulated for transport, Not applicable
14.3 Transport Hazard Class(es)	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing Group	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Enviromental Hazards	Not applicable	Not applicable	Not applicable	Not applicable

- 14.6 Special precautions for user** Not applicable
EmS-No.: NOT REGULATED
- 14.7 Maritime transport in bulk according to IMO intruments** Not applicable

SECTION 15: Regulatory Information

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

National Regulations:

Denmark Product Registration Number:

Danish MAL Code: Not available

Danish MAL Code - Mixture: Not available

Sweden Product Registration Number: Not available

Norway Product Registration Number: Not available

Germany WGK Class: 3

Directive 2004/42/CE : Not available

Covered by Directive 2012/18/EC (Seveso III): Not applicable

Restrictions to product or to substances according to Annex XVII, Regulation (CE) 1907/2006:

Not applicable

Annex XIV, Regulation (CE) 1907/2006 - Authorisation List:

CAS-No. Name According to EEC

Not Applicable

SVHC - Substances of very high concern (Candidate List - Art. 59 REACH):

CAS-No. Name According to EEC

Not Applicable

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.

Reasons for revision

Composition Information Changed

Substance and/or Product Properties Changed in Section(s):

01 - Identification

03 - Composition/Information On Ingredients

09 - Physical and Chemical Properties

14 - Transportation Information

Revision Statement(s) Changed

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

- The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark.
- Joint Research Centre in Ispira, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union

US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects
IMO	International Maritime Organization
Note P:	The classification as a carcinogen or mutagen need not apply; the substance contains less than 0,1 % w/w benzene
Note 10:	The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$.

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.