

PRB THERMOLOOK GF/GM - PRBTHERMO

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : PRB THERMOLOOK GF/GM
Product code : PRBTHERMO.

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

Coating

1.3. Details of the supplier of the safety data sheet

Registered company name : PRB S.A.
Address : 16 RUE DE LA TOUR CS 10018 . 85150. LES ACHARDS. FRANCE.
Telephone : 02 51 98 10 10. Fax : 02 51 98 10 21.
contact@prb.fr

1.4. Emergency telephone number : 33(0)1 45 42 59 59.

Association/Organisation : INRS.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS05



GHS07

Signal Word :

DANGER

Product identifiers :

EC 266-043-4 PORTLAND CEMENT CLINKER

EC 215-137-3 CALCIUM DIHYDROXIDE

Hazard statements :

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Precautionary statements - General :

P102 Keep out of reach of children.

Precautionary statements - Prevention :

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P302 + P352 IF ON SKIN: Wash with plenty of water/...

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P315 Get immediate medical advice/attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

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Precautionary statements - Disposal :

P501

Dispose of contents/container to ...

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

When mixed with water, the cement paste obtained has a high pH (12-13); then it can irritate the skin in case of prolonged contact and can cause eyes damage if splashed

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	Note	%
INDEX: PRB003 CAS: 1317-65-3 EC: 215-279-6 LIMESTONE		[1]	10 $\leq$ x % < 25
INDEX: PRB004 CAS: 65997-15-1 EC: 266-043-4 PORTLAND CEMENT CLINKER	GHS07, GHS05 Dgr Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Dam. 1, H318 STOT SE 3, H335	[1]	2.5 $\leq$ x % < 10
INDEX: PRB076 CAS: 1305-62-0 EC: 215-137-3 REACH: 01-2119475151-45 CALCIUM DIHYDROXIDE	GHS07, GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	[1]	2.5 $\leq$ x % < 10

(Full text of H-phrases: see section 16)

Information on ingredients :

[1] Substance for which maximum workplace exposure limits are available.

Other data :

The preparation contains siliceous sands including quartz as crystalline silica which have an inhalable alveolar fraction below 1%, then without classification.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In case of inhalation, take the patient outdoor to fresh air.

Consult a doctor if breathing problem.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Refer the patient to an ophthalmologist, especially if it appears a redness, pain or visual discomfort.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

To be translated (XML)

Swill the patient.

In the event of swallowing :

Do not give the patient anything orally.

If swallowed, rinse mouth with water (only if the person is conscious).

Consult a doctor.

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4.2. Most important symptoms and effects, both acute and delayed

No data available.

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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

No data available.

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Use independent breathing equipment (isolated unit).

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

Avoid inhalation of dust.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Retrieve the product by mechanical means (sweeping/vacuuming) : do not generate dust.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

7.1. Precautions for safe handling

Prevent the formation of dust.

In case of dust flight, wear a suitable dust mask.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Avoid inhaling dust.

Avoid eye contact with this mixture at all times.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep in its original sealed packaging into normally dry atmosphere and sheltered.

7.3. Specific end use(s)

No data available.

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Average dust concentration of inhaled air

Total dust VME : 10 mg/m³

Respirable dust VME : 5 mg/m³

The preparation contains siliceous sands including quartz as crystalline silica which have an inhalable alveolar fraction below 1% , then without classification.

Alveolar dust can be generated in the work environment by the used operating procedure.

Therefore, the average concentration of respirable dust inhaled from the atmosphere during 8 hours should not exceed 0.1 mg/m³ for quartz.

Occupational exposure limits :

- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m ³ :	VLE-ppm :	VLE-mg/m ³ :	Notes :	TMP No :
1317-65-3	-	10	-	-	-	-
1305-62-0	-	5	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1317-65-3	- ppm 4 mg/m ³	- ppm - mg/m ³			
65997-15-1	- ppm 4 mg/m ³	- ppm - mg/m ³			
1305-62-0	- ppm 5 mg/m ³	- ppm - mg/m ³			

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Inhalation.
Short term local effects.
4 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term local effects.
1 mg of substance/m³

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Inhalation.
Short term local effects.
4 mg of substance/m³

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term local effects.
1 mg of substance/m³

Predicted no effect concentration (PNEC):

CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

Environmental compartment:
PNEC :

Soil.
1080 mg/kg

Environmental compartment:
PNEC :

Fresh water.
0.49 mg/l

Environmental compartment:
PNEC :

Sea water.
0.32 mg/l

Environmental compartment:
PNEC :

Waste water treatment plant.
3 mg/l

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8.2. Exposure controls

- Eye / face protection

Wear goggles.

- Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Protecting creams can be used for exposed skin. They should not be applied after contact with the product.

- Body protection

Wear working clothes to protect skin.

- Respiratory protection

Wear appropriate breathing equipment certified with EN standards if concentrations exceed exposure limits.

Example : dust mask

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state : Powder or dust.

To be translated (XML)

Important health, safety and environmental information

pH : Not relevant.

Boiling point/boiling range : Not specified.

Flash point interval : Not relevant.

Vapour pressure (50°C) : Not relevant.

Density : > 1

Water solubility : Insoluble.

Melting point/melting range : Not specified.

Self-ignition temperature : Not specified.

Decomposition point/decomposition range : Not specified.

9.2. Other information

When the powder is mixed with water, this mixture takes a basic character and the PH is about 12.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under conditions of handling and storage recommendations in Section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid exposure to moisture.

10.5. Incompatible materials

Avoid contact with water (humid environment) during storage

10.6. Hazardous decomposition products

Thermal decomposition of additives from 200°C : formation of CO, CO₂.

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Substances

Acute toxicity :

PORTLAND CEMENT CLINKER (CAS: 65997-15-1)

Dermal route : LD50 > 2000 mg/kg
Species : Rabbit

CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

Oral route : LD50 > 2000 mg/kg

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Species : Rat
OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Dermal route :

LD50 > 2500 mg/kg
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Germ cell mutagenicity :

CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

Ames test (in vitro) : Negative.

Carcinogenicity :

CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

Carcinogenicity Test : Negative.
No carcinogenic effect.
Species : Rat

Reproductive toxicant :

CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

No toxic effect for reproduction

11.1.2. Mixture

Skin corrosion/skin irritation :

To be translated (XML)

Serious damage to eyes/eye irritation :

To be translated (XML)

Respiratory or skin sensitisation :

The mixture can cause respiratory tract irritation, inflammation of the nasal mucosa.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Prolonged or repeated contact with the preparation can cause removal of natural fat from the skin resulting in non allergic contact dermatitis and absorption through the skin.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

CALCIUM DIHYDROXIDE (CAS: 1305-62-0)

Fish toxicity : LC50 = 50.6 mg/l
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 49.1 mg/l
Duration of exposure : 48 h

NOEC = 32 mg/l
Species : Daphnia magna
Duration of exposure : 14 days

Algae toxicity : ECr50 = 184.57 mg/l
Duration of exposure : 72 h

Aquatic plant toxicity : NOEC = 48 mg/l
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

PORTLAND CEMENT CLINKER (CAS: 65997-15-1)

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Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

After setting of the product, its components are insoluble and definitely fixed.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2015 - IMDG 2014 - ICAO/IATA 2015).

SECTION 15 : REGULATORY INFORMATION

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 487/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 944/2013.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 605/2014.

- Container information:

No data available.

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

- | | |
|------|--------------------------------------|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |

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H335 May cause respiratory irritation.

Abbreviations :

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

GHS05 : Corrosion

GHS07 : Exclamation mark