

Name : CALCIUM HYDROXIDE POWDER - ART.11025



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

1.1. Product identifier

Product name : CALCIUM HYDROXIDE POWDER

Product code : ART.11025.

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

For dental professional use only.

1.3. Details of the supplier of the safety data sheet

Registered company name : PRODUITS DENTAIRES SA.

Address : Rue des Bosquets 18 .1800 .Vevey .Switzerland.

Telephone : +41 21 921 26 31. Fax : +41 21 921 39 79.

info@pdsa.ch

http://www.pdsa.ch

1.4. Emergency telephone number : +41 21 921 26 31.

Association/Organisation : .

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).

Toxic by eye contact (EUH070).

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.

STOT single exposure 3, way of exposure: inhalation.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Skin irritation (Xi, R 38).

Serious eye damage (Xi, R 41).

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.

Breathing tract irritation (Xi, 37)

2.2. Label elements

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

Hazard pictograms :



GHS05

Signal Word :

DANGER

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Product identifiers :

EC 215-137-3 HYDROXYDE DE CALCIUM

Hazard statements :

H315 Causes skin irritation.

H318 Causes serious eye damage.

EUH070 Toxic by eye contact.

Precautionary statements - Prevention :

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

P264 Wash hands thoroughly after handling.

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

Precautionary statements - Response :

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

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

P310 Immediately call a POISON CENTER or doctor/physician.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

Precautionary statements - Disposal :

P501 Dispose of contents/container to ...

2.3. Other hazards

In use, may form flammable/explosive dust-air mixture.

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

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

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

Identification	(EC) 1272/2008	67/548/EEC	Note	%
CAS: 1305-62-0 EC: 215-137-3 HYDROXYDE DE CALCIUM	GHS05 Dgr Skin Irrit. 2, H315 Eye Dam. 1, H318 EUH:070	Xi Xi;R38-R41	[1]	50 <= x % < 100

Information on ingredients :

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

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 the event of massive inhalation, remove the person exposed to fresh air and seek medical attention.

In the event of splashes or contact with eyes :

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

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

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In the event of splashes or contact with skin :

Wash the skin thoroughly with soap and fresh water.

Be careful with product which can remain between the skin and the clothes, the watch, the jewels.

In the event of an allergic reaction, seek medical attention.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Do not induce vomiting.

Rinse the mouth with water and then drink a lot of water. Seek medical attention.

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

Calcium hydroxide does not present acute toxicity by oral or cutaneous route or by inhalation. It is classified as irritating to skin or respiratory system and can cause serious eye damages.

The local effects (pH effect) are the main thing risked for the health.

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

Suitable methods of extinction

In the event of a fire, use :

- foam
- powder
- carbon dioxide (CO₂)

The product is not combustible itself. Adapt the measures of extinction in the middle surrounding.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Avoid generating dusts.

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 fire-fighters

Avoid any contact with the skin and eyes.

Avoid generating dusts.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

Avoid generating dusts.

Avoid any contact with the skin and eyes.

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6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Neutralise with an acidic decontaminant.

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

Respect storage precautions mentioned on the label.

7.1. Precautions for safe handling

Always wash hands after handling.

Avoid any contact with skin and eyes.

The persons who have medical histories of cutaneous reactions must use this product with all the required precautions.

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.

Packages which have been opened must be reclosed carefully and stored in an upright position.

7.2. Conditions for safe storage, including any incompatibilities

Keep the container tightly closed and away from dampness

Storage

Respect storage precautions mentioned on the label.

Packaging

Always conserve in the original packaging.

7.3. Specific end use(s)

Consult instructions for use enclosed.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1305-62-0	5 mg/m3	-	-	-	-

- France (INRS - ED984 :2008) :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
1305-62-0	-	5	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
1305-62-0	5 mg/m3	-	-	-	-

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



- Eye / face protection

Avoid contact with eyes.

- Hand protection

Wear gloves according to the hygienic rules in force in dental surgeries.

- Body protection

Avoid skin contact.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid breathing dust.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General information :

Physical state :	Powder or dust.
Apparent bulk density (Loose packed) :	2130
Colour:	white

Important health, safety and environmental information

pH (aqueous solution) :	12.3
pH :	Not stated. Strongly basic.
Boiling point/boiling range :	Not relevant.
Flash point interval :	Not relevant.
Flammability (solid, gas) :	non
Vapour pressure (50°C) :	Not relevant.
Vapour density :	1.38
Density :	2.24 Method for determining the density : Method A.3 (Relative density) as described in Part A of the Annex to Regulation (EC)No 440/2008
Water solubility :	Soluble. 1844.9 mg/l Method for determining the water solubility : Method A.6 (Water solubility) as described in Part A of the Annex to Regulation (EC)No 440/2008
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

9.2. Other information

Enthalpy of melting :	> 450°C
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SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

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10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

Do not use if the expiry date is exceeded.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- formation of dusts
- humidity

10.5. Incompatible materials

Keep away from :

- acids

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have irreversible effects on the eyes, such as tissue damage in the eye, or serious physical decay of sight, which is not fully reversible by the end of observation at 21 days.

May be toxic through eye contact following absorption through the mucous membranes of the eye.

11.1.1. Substances

Acute toxicity :

HYDROXYDE DE CALCIUM (CAS: 1305-62-0)

Oral route :

LD₅₀ = 7340 mg/kg

Species : Rat

Skin corrosion/skin irritation :

HYDROXYDE DE CALCIUM (CAS: 1305-62-0)

Effect observed : Overall irritation score

Respiratory or skin sensitisation :

HYDROXYDE DE CALCIUM (CAS: 1305-62-0)

Local lymph node stimulation test :

Non-Sensitiser.

Guinea Pig Maximisation Test (GMPT) :

Non-sensitiser.

Buehler Test :

Non-sensitiser.

11.1.2. Mixture

Acute toxicity :

Species : Rat

LD₅₀ > 2000 mg/kg

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

Species : Rabbit

LD₅₀ > 2500 mg/kg

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OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/skin irritation :

Irritation : Causes skin irritation.
The irritant classification based on a high/low pH has been confirmed by irritation tests.

Serious damage to eyes/eye irritation :

Causes serious eye damage.
The mixture produces at least in one animal effects on the cornea, iris or conjunctiva that are not expected to reverse or have not fully reversed within an observation period of normally 21 days.
The risk of serious ocular lesions is based on the low/high pH and has been confirmed by tests.

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

HYDROXYDE DE CALCIUM (CAS: 1305-62-0)

Fish toxicity : LC50 = 160 mg/l
Species : Gambusia affinis
Duration of exposure : 96 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

HYDROXYDE DE CALCIUM (CAS: 1305-62-0)

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

No data available.

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 :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

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.

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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 2013 - IMDG 2012 - ICAO/IATA 2013).

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:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Regulation EC 1272/2008 modified by regulation EC 618/2012
- EU Regulation No. 1272/2008 amended by EU Regulation No. 758/2013.

- Container information:

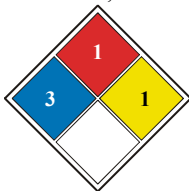
The mixture is contained in packaging that does not exceed 125 ml.

- Particular provisions :

No data available.

- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :

NFPA 704, Labelling: Health=3 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



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.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Irritant

Contains :

EC 215-137-3

HYDROXYDE DE CALCIUM

Risk phrase :

R 38

Irritating to skin.

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R 41	Risk of serious damage to eyes.
Safety phrase :	
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/39	Wear suitable protective clothing and eye/face protection.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 22	Do not breathe dust.
S 37	Wear suitable gloves.
S 60	This material and its container must be disposed of as hazardous waste.
S 24	Avoid contact with skin.
S 25	Avoid contact with eyes.
S 8	Keep container dry.

Title for H, EUH and R indications mentioned in section 3 :

H315	Causes skin irritation.
H318	Causes serious eye damage.
EUH070	Toxic by eye contact.
R 38	Irritating to skin.
R 41	Risk of serious damage to eyes.

Abbreviations :

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