

Safety Data Sheet CALCIUM HYDROXIDE

Revision date :
Version : 3.0

Page: 1/7

NUMBER

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

1.1 Product identifiers

Chemical Name Calcium hydroxide
CAS NO. 1305-62-0

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

1. Calcium hydroxide is also used in the manufacturing of some pesticides, in the production of paints and waterproofing materials, and as an additive to oils and lubricants to improve the ability for these fluids to flow.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
106, Chalaremprakiat, Lor 9, Soi 22, Yak
5, Nongbon, Prawet, Bangkok
Bangkok - 10250
Thailand
Telephone : 0804531391
Email - contact@polymeradd.co.th

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Human Health Skin irritation, (Category 2) H315: Causes skin irritation
Serious eye damage, (Category 1) H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, (Category 3), Respiratory system H335: May cause r

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

Pictogram



Signal word

Danger

H315
H318
H335

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation.

P261
P264
P271
P280

Avoid breathing dust.
Wash skin thoroughly after handling
Use only outdoors or in a well-ventilated area
Wear protective gloves/ eye protection/ face protection

P302 + P352

IF ON SKIN: Wash with plenty of water

Safety Data Sheet CALCIUM HYDROXIDE

Revision date :

Page: 2/7

Version : 3.0

NUMBER

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lense

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name	Calcium hydroxide
CAS NO	1305-62-0
EC Number	215-137-3
Molecular Formula	H ₂ CaO ₂
Molecular Weight	74.09 g/mol
Concentration	<= 100 %

4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled fresh air.

In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Safety Data Sheet
CALCIUM HYDROXIDE

Revision date :
Version : 3.0

Page: 3/7

NUMBER

	Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
5.2	Special hazards arising from the substance or mixture	Calcium oxide Not combustible. Ambient fire may liberate hazardous vapours.
5.3	Advice for firefighters	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
5.4	Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2

7.2 Information about protection against explosions and fires

No data available

7.3 Conditions for safe storage including any incompatibilities

Tightly closed. Dry.

7.4 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Safety Data Sheet CALCIUM HYDROXIDE

Revision date :
Version : 3.0

Page: 4/7

NUMBER

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves

Body Protection

protective clothing

Respiratory protection

required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2

Control of environmental exposure

Do not let product enter drains.

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	beige powder
b) Odour	No data available
d) pH (% solution in water)	12.4-12.6
e) Melting point/freezing point	= 450 °C
f) Initial boiling point and boiling range	2850 °C - (decomposition)
g) Flash point	Not applicable
i) Flammability (solid or gas)	The product is not flammable.
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	2.24 g/mL at 25 °C - lit
m) Relative density	2.22 at 20 °C - OECD Test Guideline 109
n) Water solubility	1.85 g/l at 20 °C - Regulation (EC) No. 440/2008,
o) Partition coefficient: n-octanol/water	Not applicable for inorganic substances
p) Autoignition temperature	> 400 °C - Relative self-ignition temperature for
q) Decomposition temperature	No data available
r) Viscosity	No data available

Safety Data Sheet CALCIUM HYDROXIDE

Revision date :
Version : 3.0

Page: 5/7

NUMBER

s)Explosive properties	No data available
t)Oxidizing properties	none

9.2 Other safety information

10 STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
10.3 Possibility of hazardous reactions	Exothermic reaction with: hydrogen sulphide Light metals phosphorus organic nitro compounds acids Risk of explosion with: anhydrides
10.4 Conditions to avoid	no information available
10.5 Incompatible materials	Light metals
10.6 Hazardous decomposition products	In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	LD50 Oral - Rat - female - > 2.000 mg/kg
Acute Inhalation toxicity	LC50 Inhalation - Rat - male and female - 4 h - > 6,04 mg/l - dust/mist
Acute dermal toxicity	LD50 Dermal - Rabbit - male and female - > 2.500 mg/kg
Skin corrosion/irritation	Skin - Rabbit Result: Irritating to skin. (OECD Test Guideline 404)
Serious eye damage/eye irritation	Eyes - Rabbit Result: Irreversible effects on the eye (OECD Test Guideline 405) Remarks: Risk of corneal clouding. Risk of blindness!
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476 Result: negative Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro Test system: Human lymphocytes

Safety Data Sheet
CALCIUM HYDROXIDE

Revision date :
Version : 3.0

Page: 6/7

NUMBER

Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	Inhalation - May cause respiratory irritation. - Respiratory Tract
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
RTECS	EW2800000

Signs And Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 50,6 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 49,1 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to Algae/Aquatic plants	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 184,6 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to microorganisms	static test EC50 - activated sludge - 300,4 mg/l - 3 h (OECD Test Guideline 209)

12.2 **Persistence and degradability**

Biodegradation

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bio accumulative potential	Does not bioaccumulate.
12.4 Mobility in soil	No data available
12.5 Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects	No data available

13 DISPOSAL CONSIDERATIONS

Safety Data Sheet
CALCIUM HYDROXIDE

Revision date :
Version : 3.0

Page: 7/7

NUMBER

13.1 **Waste treatment methods**

Product

No data available

14 **TRANSPORT INFORMATION**

14.1 **UN number**

ADR/RID

IMDG

IATA

-

-

-

14.2 **UN proper shipping name**

ADR/RID

IMDG

IATA

Not dangerous goods

Not dangerous goods

Not dangerous goods

14.3 **Transport hazard class(es)**

ADR/RID

IMDG

IATA

-

-

-

14.4 **Packaging group**

ADR/RID

IMDG

IATA

-

-

-

14.5 **Environmental hazards**

ADR/RID

IMDG Marine pollutant

IATA

no

no

no

14.6 **Special precautions for user**

No data available

15 **REGULATORY INFORMATION**

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

15.2 **Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out for this substance

16 **OTHER INFORMATION**

H315
H318
H335

Causes skin irritation.
Causes serious eye damage.
May cause respiratory irritation

Month of Creation

March 2023

Month of Revision

March 2027