

Safety Data Sheet

CALCIUM SILICATE

Revision date :

Page: 1/6

Version : 3.0

NUMBER

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

1.1 Product identifiers

Chemical Name	CALCIUM SILICATE
CAS NO.	1344-95-2

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

1. Calcium silicate is used as an anticaking agent in food preparation, including table salt and as an antacid.
2. It is used as a sealant in roads or on the shells of fresh eggs.
3. It is used in passive fire protection and fireproofing as calcium silicate brick or in roof tiles.

Details of the supplier of the safety data sheet

COMPANY

POLYMER ADD (THAILAND) CO., LTD.
 106, Chalaremprikiat, 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

Physical and Chemical Hazards	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
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2.2 Labelling according Regulation (EC) No 1272/2008 [CLP]

Label elements	No hazard pictogram
Signal word	no signal word
Hazard statement(s)	no hazard statement(s)
Precautionary statement(s)	no precautionary statement(s) required

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
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3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Component

Chemical Name	Calcium silicate
CAS NO	1344-95-2

Safety Data Sheet

CALCIUM SILICATE

Revision date :

Page: 2/6

Version : 3.0

NUMBER

EC Number 215-710-8

Molecular Formula Ca.SiO₃

Molecular Weight 172.237

Concentration

4 FIRST AID MEASURES

4.1 Description of first aid measures

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. Remove contact lenses.
If swallowed	make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

Suitable extinguishing media	Water Foam Carbon dioxide (CO ₂) Dry powder Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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5.2 Special hazards arising from the substance or mixture	Calcium oxide silicon oxides Not combustible. Combustible
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5.3 Advice for firefighters	In the event of fire, wear self-contained breathing apparatus
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5.4 Further information	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water
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6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions protective equipment and emergency procedures

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

Safety Data Sheet

CALCIUM SILICATE

Revision date :

Page: 3/6

Version : 3.0

NUMBER

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

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

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 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented

Control of environmental exposure

Do not let product enter drains

9 PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance

white powder

Safety Data Sheet

CALCIUM SILICATE

Revision date :

Page: 4/6

Version : 3.0

NUMBER

b)Odour	No data available
c)Odour Threshold	No data available
d)pH (% solution in water)	No data available
e)Melting point/freezing point	No data available
f)Initial boiling point and boiling range	No data available
g)Flash point	No data available
h)Evaporation rate	No data available
i)Flammability (solid or gas)	No data available
j)Upper/lower flammability or explosive limits	No data available
k)Vapour pressure	No data available
l)Vapour density	2.900 g/cm ³
m)Relative density	No data available
n)Water solubility	0.26 g/l at 20 °C
o)Partition coefficient: n-octanol/water	No data available
p)Autoignition temperature	No data available
q)Decomposition temperature	No data available
r)Viscosity	No data available
s)Explosive properties	No data available
t)Oxidizing properties	No data available

9.2 Other safety information

10 STABILITY AND REACTIVITY

10.1 Reactivity	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be a
10.2 Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	no information available
10.5 Incompatible materials	Strong oxidizing agents
10.6 Hazardous decomposition products	In the event of fire: see section 5

11 TOXICOLOGICAL INFORMATION

Safety Data Sheet

CALCIUM SILICATE

Revision date :

Page: 5/6

Version : 3.0

NUMBER

11.1 Information on toxicological effects

Acute oral toxicity	No data available
Acute Inhalation toxicity	No data available
Acute dermal toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	Test Type: Chromosome aberration test in vitro Test system: Other cell types Method: OECD Test Guideline 473 Result: negative Species: in vivo assay Method: OECD Test Guideline 475 Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

12 ECOLOGICAL INFORMATION

12.1 Toxicity	No data available
12.2 Persistence and degradability	
Biodegradation	
No data available	
12.3 Bio accumulative potential	No data available
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

13.1 Waste treatment methods

Safety Data Sheet

CALCIUM SILICATE

Revision date :

Page: 6/6

Version : 3.0

NUMBER

Product

No data available

14 TRANSPORT INFORMATION

14.1 UN number

ADR/RID

IMDG

IATA

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-

-

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

For this product a chemical safety assessment was not carried out

16 OTHER INFORMATION

Month of Creation

March 2023

Month of Revision

March 2027