SIGMA-ALDRICH

SAFETY DATA SHEET

Version 4.9 Revision Date 12/11/2017 Print Date 05/15/2018

	RODUCT AND COMPANY	IDENTIFICATION					
1.1	Product identifiers Product name						
	FIGUUCI Hame	[:] Calcium ca	arbonate				
	Product Number	: C4830					
	Brand	: Sigma-Aldrich					
	CAS-No.	: 471-34-1					
2	Relevant identified uses of the substance or mixture and uses advised against						
	Identified uses	: Laboratory che	micals, Synthesis of substances	i de la construcción de la constru			
.3	Details of the supplier of	the safety data sheet					
	Company	: Sigma-Aldrich					
		3050 Spruce S					
		SAINT LOUIS USA	MO 63103				
	Telephone	: +1 800-325-58	32				
	Fax	: +1 800-325-50					
.4	Emergency telephone nu	Imber					
	Emergency Phone #	: +1-703-527-38	87 (CHEMTREC)				
2. H	AZARDS IDENTIFICATION	N					
.1	Classification of the subs	stance or mixture					
	Not a hazardous substance	e or mixture.					
.2	GHS Label elements, including precautionary statements						
	Not a hazardous substance or mixture.						
.3	Hazards not otherwise cl	assified (HNOC) or no	ot covered by GHS - none				
2 0	OMPOSITION/INFORMAT						
.1	Substances Formula	: CCaO ₃					
	Molecular weight	: 100.09 g/mol					
	CAS-No.	: 471-34-1					
	EC-No.	: 207-439-9					
	Hazardous components						
	Component		Classification	Concentration			
	Calcium carbonate						
				90 - 100 %			

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture No data available
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 **Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8.

6.2 Environmental precautions No special environmental precautions required.

- **6.3 Methods and materials for containment and cleaning up** Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Keep in a dry place. Storage class (TRGS 510): 13: Non Combustible Solids

7.3 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

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis	
Calcium carbonate	471-34-1	TWA	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
		TWA	15.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
		TWA	5.000000 mg/m3	USA. NIOSH Recommended Exposure Limits	
		TWA	10.000000 mg/m3	USA. NIOSH Recommended Exposure Limits	
		PEL	10 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
		PEL	5 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)	
		TWA	5 mg/m3	USA. NIOSH Recommended Exposure Limits	
	Remarks		Occurs in nature as as limestone, chalk, marble, dolomite, aragonite, calcite & oyster shells.		
		TWA	10 mg/m3	USA. NIOSH Recommended Exposure Limits	
		Occurs in n calcite & oy		tone, chalk, marble, dolomite, aragonite,	

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	8.0
e)	Melting point/freezing point	Melting point/freezing point: 800 °C (1,472 °F) - Decomposes on heating.
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, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	2.93 g/cm3 at 25 °C (77 °F)
n)	Water solubility	insoluble
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition 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
Othe	r safety information	

No data available

9.2

10. STABILITY AND REACTIVITY

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available

10.4 Conditions to avoid Exposure to moisture may affect product quality.

10.5 Incompatible materials Strong oxidizing agents, Acids, Magnesium, Aluminium

Hazardous decomposition products Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Calcium oxide In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 6,450 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation (OECD Test Guideline 404)

Serious eye damage/eye irritation No data available

Respiratory or skin sensitisation No data available

Germ cell mutagenicity No data available

Carcinogenicity

Reproductive toxicity No data available

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

Additional Information RTECS: FF9335000

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

12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.2 Persistence and degradability

- 12.3 Bioaccumulative potential No data available
- **12.4 Mobility in soil** No data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

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Pennsylvania Right To Know Components

Calcium carbonate	CAS-No. 471-34-1	Revision Date
New Jersey Right To Know Components	CAS-No.	Revision Date
Calcium carbonate	471-34-1	Revision Dale

16. OTHER INFORMATION

HMIS Rating

Health hazard:

Chronic Health Hazard: Flammability:	0		
Physical Hazard	0		
NFPA Rating			
Health hazard:	0		

Fire Hazard: Reactivity Hazard:

0

0

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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