

## MATERIAL SAFETY DATA SHEET

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Version 1.5

## Section 1 - Product and Company Information

Product Name CALCIUM CARBONATE, RANDOM  
CRYSTALS, OPTICAL GRADE  
Product Number 552941  
Brand ALDRICH

Company Sigma-Aldrich  
Street Address 3050 Spruce Street  
City, State, Zip, Country SAINT LOUIS MO 63103 US  
Technical Phone: 314 771 5765  
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Fax: 800 325 5052

## Section 2 - Composition/Information on Ingredient

Substance Name	CAS #	SARA 313 No
CALCIUM CARBONATE	471-34-1	

Formula CaCO3

Synonyms Aeromatt \* Akadama \* Albacar \* Albacar 5970 \*  
Albafil \* Albaglos \* Albaglos SF \* Allied whiting  
\* Atomit \* Atomite \* AX 363 \* BF 200 \* Brilliant  
15 \* Brilliant 1500 \* Britomya M \* Britomya S \*  
Calcene CO \* Calcene NC \* Calcene TM \* Calcicoll  
\* Calcidar 40 \* Calcilit 8 \* Calcilit 100 \*  
Calcium carbonate (1:1) \* Calcium monocarbonate \*  
Calibrite \* Cal-Light SA \* Calmos \* Calmote \*  
Calofil A 4 \* Calofil B 1 \* Calofil E 2 \*  
Calofort S \* Calofort U \* Calofor U 50 \* Calopake  
F \* Calopake FS \* Calopake H \* Calopake high  
opacity \* Calopake PC \* Calseeds \* Caltec \*  
Camel-carb \* Camel-tex \* Camel-wite \* Carbital 90  
\* Carbiium \* Carbiium MM \* Carborex 2 \* Carusis P \*  
CCC G-white \* CCC No.AA oolitic \* CCR \* CCW \*  
Chemcarb \* Clefnon \* C.I. Pigment White 18 \*  
Crystic prefil S \* Dacote \* DOMAR \* Duramite \*  
Durcal 10 \* Durcal 40 \* Durcal C 640305 \* Durcal  
2NH \* EGRI M 5 \* Eskalon 100 \* Eskalon 200 \*  
Eskalon 400 \* Eskalon 800 \* Eskalon 1500 \* Filtex  
White Base \* Finncarb 6002 \* Garolite SA \*  
Gilder's whiting \* Hakuenka CC \* Hakuenka CCR \*  
Hakuenka DD \* Hakuenka O \* Hakuenka PX \* Hakuenka  
PZ \* Hakuenka R 06 \* Hakuenka T-DD \* Homocal D \*

## Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

Irritant.

Irritating to respiratory system and skin. Risk of serious damage  
to eyes.

## HMIS RATING

HEALTH: 2  
FLAMMABILITY: 0  
REACTIVITY: 1

NFPA RATING

HEALTH: 2  
FLAMMABILITY: 0  
REACTIVITY: 1

For additional information on toxicity, please refer to Section 11.

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Section 4 - First Aid Measures

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ORAL EXPOSURE

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE

In case of contact, immediately wash skin with soap and copious amounts of water.

EYE EXPOSURE

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

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Section 5 - Fire Fighting Measures

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FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

N/A

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Specific Hazard(s): Emits toxic fumes under fire conditions.

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Section 6 - Accidental Release Measures

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PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

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Section 7 - Handling and Storage

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Refractive Index N/A  
Optical Rotation N/A  
Miscellaneous Data N/A  
Solubility Solubility in Water: Insoluble.

N/A = not available

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## Section 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Conditions to Avoid: Moisture.

Materials to Avoid: Strong oxidizing agents, Acids, Magnesium, Aluminum.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Calcium oxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## Section 11 - Toxicological Information

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### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation.

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

### SIGNS AND SYMPTOMS OF EXPOSURE

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

### TOXICITY DATA

Oral

Rat

6450 mg/kg

LD50

### IRRITATION DATA

Skin

Rabbit

500 mg

24H

Remarks: Moderate irritation effect

Eyes

Rabbit

0.75 mg

24H

Remarks: Severe irritation effect

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## Section 12 - Ecological Information

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No data available.

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## Section 13 - Disposal Considerations

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APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

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Section 14 - Transport Information

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DOT

Proper Shipping Name: None  
Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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Section 15 - Regulatory Information

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EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xi  
Indication of Danger: Irritant.  
R: 37/38 41  
Risk Statements: Irritating to respiratory system and skin. Risk of serious damage to eyes.  
S: 26 36/37/39  
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

US CLASSIFICATION AND LABEL TEXT

Indication of Danger: Irritant.  
Risk Statements: Irritating to respiratory system and skin. Risk of serious damage to eyes.  
Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No  
TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.  
DSL: Yes  
NDSL: No

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Section 16 - Other Information

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DISCLAIMER

For R&D use only. Not for drug, household or other uses.

WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

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