

Safety Data Sheet

MANUFACTURERS. & EXPORTERS.

Date: 12/01/2021



**modern
teaching aids**

Level 1, 122-126 Pittwater Road, Brookvale NSW Australia
Telephone: 1800 251 497 Facsimile: 1800 151 492
Website: teaching.com.au

SECTION 1

PRODUCT IDENTIFICATION

Product: Dustless Coloured Chalk – Box of 100
Product Code: FS4100
Trade Name and Synonyms: Gypsum (Calcium Sulphate hemi hydrate)
Formula: $\text{CaSO}_4 \frac{1}{2} \text{H}_2\text{O}$
Manufacturer Information: Siam Gypsum Plaster Limited Partnership

SECTION 2

HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

ΔWARNING!

This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract.

POTENTIAL HEALTH EFFECTS (See Section 11 for more information)

ACUTE :

Inhalation: Exposure to dust generated during the handling or sanding of the product may cause temporary irritation to eyes, skin, nose, throat, and upper

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respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

Eyes: Dust can cause temporary mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

Skin: None known.

Ingestion: None known.

CHRONIC:

Inhalation: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

Eyes: None known.

Skin: None known.

Ingestion: None known.

TARGET ORGANS:

Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY:

Inhalation, eyes and skin contact.

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S):

All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

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MATERIAL	IARC	NTP	ACGIH	CAL- 65
Crystalline silica	1	1	A2	Listed

IARC - International Agency for Research on Cancer: 1- Carcinogenic to humans; 2A - Probably carcinogenic to humans; 2B - Possibly carcinogenic to humans; 3 - Not classifiable as a carcinogen; 4 - Probably not a carcinogen

NTP - National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS): 1- Known to be carcinogen; 2- Anticipated to be carcinogens

ACGIH - American Conference of Governmental Industrial Hygienists: A1 - Confirmed human carcinogen; A2 - Suspected human carcinogen; A3 - Animal carcinogen; A4 - Not classifiable as a carcinogen; A5 - Not suspected as a human carcinogen

CAL-65 - California Proposition 65 "Chemicals known to the State of California to Cause Cancer"

Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent of crystalline silica given represents total quartz and not the respirable fraction. The weight percent of respirable silica has not been measured in this product.

Food and Drug Administration [CFR Title 21, v.3, sec 184.1409] - Ground limestone is Generally Recognized as Safe (GRAS).

POTENTIAL ENVIRONMENTAL EFFECTS:

Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect. (See Section 12 for more information.)

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SECTION 3

COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Gypsum	96-98	10	15(T)/5(R)	13397-24-5
Or Calcium Sulfate hemi hydrate	96-98	10	15(T)/5(R)	10101-41-4
Limestone	0-1.5	10	15(T)/5(R)	1317-65-3
Crystalline Silica	<5	0.1(R)	0.1 (R)	14808-60-7

(T) = Total (R) = Respirable

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory. All components of this product are included in the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL). The weight percent for silica represents total quartz and not the respirable fraction.

SECTION 4

FIRST AID MEASURES

FIRST AID PROCEDURES

Inhalation:

Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.

Eyes:

In case of contact, do not rub or scratch your eyes. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, consult physician.

Skin:

To prevent the drying effect of Plaster of Paris, wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has

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become cracked, take appropriate action to prevent infection and promote healing. If irritation persists, consult physician.

Ingestion:

Plaster of Paris hardens and, if ingested, may result in obstruction of the gut, especially the pyloric region. Drinking gelatin solutions or large volumes of water may delay setting.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED:

Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.

NOTES TO PHYSICIAN:

Treatment should be directed at the control of symptoms and the clinical condition.

SECTION 5

FIRE FIGHTING MEASURES

General Fire Hazards:	Not expected to burn.
Extinguishing Media:	Water or use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures:	Wear appropriate personal protective equipment. See section 8.
Unusual Fire/ Explosion Hazards:	None known
Hazardous Combustion Products:	Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide (SO ₂). Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂).
Flash Point:	Not Determined
Auto Ignition:	Not Applicable
Method Used:	Not Applicable
Flammability Classification:	Not Applicable

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Upper Flammable Limit (UFL): Not Determined

Lower Flammable Limit (LFL): Not Determined

Rate of Burning: Not Applicable

SECTION 6

ACCIDENTAL RELEASE MEASURES

CONTAINMENT:

No special precautions. Wear appropriate personal protective equipment. See section 8.

CLEAN-UP:

Use normal clean up procedures. No special precautions.

DISPOSAL:

Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters.

SECTION 7

HANDLING AND STORAGE

HANDLING:

Avoid dust contact with eyes and skin. Wear the appropriate eye and skin protection against dust (See Section 8). Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Use good safety and industrial hygiene practices.

STORAGE:

Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities (see Section 10). As a dry powder, dew point conditions or other conditions causing presence of liquid will harden Plaster of Paris during storage.

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SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIAL	WT%	TLV (mg/m ³)	PEL(mg/m ³)
Plaster of Paris (CaSO ₄ •½H ₂ O)	>95	10	15(T)/5(R)
Crystalline Silica	<5	0.025(R)	0.1(R)
May Contain:	[]
Limestone	<20	10	15(T)/5(R)
Or Dolomite		10	15(T)/5(R)

(T)-Total; (R)-Respirable; (NE)-Not Established; (C)-Ceiling; (STEL)-Short-term exposure limit; (F)-Fume; (Du)-Dust; (M)-Mist

ppm-part per million; f/cc-fiber per cubic centimeter; mppcf- million particles per cubic foot

ENGINEERING CONTROLS:

Provide ventilation sufficient to control airborne dust levels. If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits. Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits.

RESPIRATORY PROTECTION:

Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

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OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face:

Wear eye protection, safety glasses or goggles, to avoid possible eye contact.

Skin:

Wear gloves and protective clothing to prevent repeated or prolonged skin contact.

General:

Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to off-white / White crystals or powder
Odor:	Low to no odor
Odor Threshold:	Not Determined
Physical State:	Solid/ Powder
pH @ 25 ° C:	~7
Melting Point:	1460°C
Freezing Point:	Not Applicable
Boiling Point:	Not Applicable
Flash Point:	Not Determined
Evaporation Rate (BuAc = 1):	Not Applicable
Upper Flammable Limit (UFL):	Not Determined
Lower Flammable Limit (LFL):	Not Determined
Vapor Pressure (mm Hg):	Not Applicable
Vapor Density (Air = 1):	Not Applicable
Specific Gravity (H ₂ O = 1):	~2.96 (Plaster of Paris)
Solubility in water (g/100g):	0.15 - 0.40 (Plaster of Paris)
Partition Coefficient:	Not Determined
Auto-ignition Temp:	Not Determined

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Decomposition Temp:	2642°F/1450°C
Viscosity:	Not Applicable
Particle Size:	Varies
Bulk Density:	55-70 lb/ft ³ (dry) / 881-1,121 kg/m ³ (dry)
Molecular Weight:	~ 145 g/mole (Plaster of Paris)
VOC Content:	Zero g/L
Percent Volatile:	Zero

SECTION 10

CHEMICAL STABILITY AND REACTIVITY

STABILITY:

Stable.

CONDITIONS TO AVOID:

Contact with acids, water, and high humidity.

INCOMPATIBILITY:

Acids. Exposure to water and acids must be supervised because the reactions are vigorous and produce large amounts of heat.

HAZARDOUS POLYMERIZATION:

None known.

HAZARDOUS DECOMPOSITION:

Above 1450° C - calcium oxide (CaO) and sulfur dioxide (SO₂). Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO₂).

SECTION 11

TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

The acute oral toxicity study [OECD TG 420] of calcium sulfate dihydrate showed that this chemical did not cause any changes even at 2,000 mg/kg b.w.

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Therefore, the oral LD50 value was more than 2,000-mg/kg b.w. for female rats. Gypsum paste applied experimentally to the eyes of rabbits was not an irritant. Gypsum dust particulate has shown an irritant action on mucous membranes of the respiratory tract and eyes. The sulfate ion has caused gastro-intestinal disturbance in humans following large oral doses. Limited studies involving the repeated inhalation of an (unspecified) calcium sulfate failed to identify any particular target organs in monkeys, rats and hamsters. No evidence of mutagenicity was found in Ames bacterial tests.

CHRONIC EFFECTS / CARCINOGENICITY:

Plaster of Paris:

Testing of dust from USG plaster of paris has not detected respirable crystalline silica.

Crystalline Silica:

Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. The weight percent of respirable crystalline silica may not have been measured in this product. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. Smoking in combination with silica exposures increases the risk of cancer. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

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SECTION 12

ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on ecology. Toxicity studies performed with fish, aquatic invertebrates and aquatic plants showed no toxic effect.

Ecotoxicity value: Not determined.

SECTION 13

DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Slurry may plug drains. Trace amounts of residue can be flushed to a drain, using plenty of water.

SECTION 14

TRANSPORT INFORMATION

DOT INFORMATION:

Not a hazardous material per DOT shipping requirements. Not classified or regulated.

Shipping Name:	Same as product name.
Hazard Class:	Not classified.
UN/NA #:	None. Not classified.
Packing Group:	None.
Label (s) Required:	Not applicable.

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GGVSec/MDG-Code: Not classified.
ICAO/IATA-DGR: Not applicable.
RID/ADR: None.
ADNR: None.

SECTION 15

REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	302	304	313	CERCLA	CAASec. 112	RCRA Code
Plaster of Paris ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$)	>95	NL	NL	NL	NL	NL	NL
Crystalline Silica	<5	NL	NL	NL	NL	NL	NL
May Contain:	[]
Limestone	<20	NL	NL	NL	NL	NL	NL
Or Dolomite		NL	NL	NL	NL	NL	NL

Key :

NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances:

Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances:

Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

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CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention:
Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of Controlled Product regulations and the MSDS contains all the information required by the Controlled Products Regulations. All ingredients of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification
Plaster of Paris ($\text{CaSO}_4 \cdot \frac{1}{2}\text{H}_2\text{O}$)	>95	Not Listed	Not Listed
Crystalline Silica	<5	1406	D2A
May Contain:		[]
Limestone	<20	Not Listed	D2A
Or Dolomite		Not Listed	Not Listed

IDL Item#: Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

**Risk and Safety Phrases defined by European Union Directive 67/548/EEC
(Annex III and IV)**

R-Phrase(s): R36/37/38

S-Phrase(s): S51 S38 S39

SECTION 16

OTHER INFORMATION

WARNING!!

When mixed with water, this material hardens and becomes very hot sometimes quickly. DO NOT attempt to make a cast enclosing any part of the body

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using this material. Failure to follow these instructions can cause severe burns that may require surgical removal of affected tissue or amputation of limb. Dust can cause irritation to eyes, skin and respiratory tract. Use wet-sanding to reduce dust created. Wear eye, skin and respiratory protection as necessary per working conditions. If eye contact occurs flush with water for 15 minutes. Do not ingest. If ingested, call physician.

Product safety information: +(66) 24150045

Customer Service: +(66) 24150045

KEEP OUT OF REACH OF CHILDREN.

Key/Legend

ANSI:	American National Standards Institute
ACGIH:	American Conference of Governmental Industrial Hygienists
CAA:	Clean Air Act
CAS:	Chemical Abstracts Service (Registry Number)
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act of 1980
CFR:	Code of Federal Regulations
DOT:	United States Department of Transportation
DSL:	Canadian Domestic Substances List
EPA:	United States Environmental Protection Agency
EPCRA:	Emergency Planning & Community Right-to-know Act
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
MSHA:	Mine Safety and Health Administration
NDSL:	Canadian Non-Domestic Substances List
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
OSHA:	Occupational Health and Safety Administration
PEL:	Permissible Exposure Limit
PPE:	Personal Protection Equipment
RCRA:	Resource Conservation and Recovery Act

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SARA: Superfund Amendments and Reauthorization Act of 1986
TLV: Threshold Limit Value
TSCA: Toxic Substances Control Act
UN/NA#: United Nations/North America number
WHMIS: Workplace Hazardous Material Information System

Prepared by:

Product Safety

Siam Gypsum Plaster Limited Partnership

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for his/her own particular use.

END