

SAFETY DATA SHEET

MATERIAL: SYNTHETIC GYPSUM

Section 1 - Product Identification

Product Identifier

Product Name: Synthetic Gypsum

Synonyms: Gypsum, calcium sulfate, syn gyp, FGD gypsum

Product Form: Solid

Intended Use of Product: Synthetic gypsum is a byproduct of flue gas desulfurization and is used as an additive in the manufacture of portland cement to prevent flash setting of concrete. It is also used in the manufacture of drywall and drywall compounds.

Name, Address and Telephone of Responsible Party

Holcim (US) Inc. 24 Crosby Drive Bedford, MA 01730 (888) 646-5246 **Emergency Contact Information:**

CHEMTREC: 1-800-424-9300

Section 2 - Hazards Identification

Classification of the Substance or Mixture

Classification (GHS-US)

Respiratory irritant 3
Eye irritant 2B

abel Elements
Hazard Pictograms



Signal Word

Hazard Statements

Warning

May cause respiratory irritation

Causes eye irritation

Precautionary Statements

Prevention Avoid breathing dust.

Wear eye protection/face protection. Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. Use only outdoors or in well-ventilated area.

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you

eel unwell.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on skin: No special response indicated.

If swallowed: No special response indicated.

Storage Store in a well-ventilated place. Keep container tightly closed.

Disposal Dispose of contents/container in accordance with local/state/national regulations.

Other Hazards None determined.

Section 3 – Composition/Information on Ingredients				
Component/Ingredient	CAS#	Percent Present (Range)		
alcium sulfate dihydrate	10101-41-4	98 - 100		
Nuisance Dusts (Particulates not otherwise regulated)	None	<1-2		

Other Components

Synthetic gypsum (calcium sulfate dihydrate) is manufactured when limestone reacts with sulfur dioxide released into a gas stream from the combustion of coal. Trace amounts of naturally occurring chemical compounds might be detected during chemical analysis depending on the source of the limestone and coal. These may include trace amounts of magnesium sulfate, free crystalline or amorphous silica and sulfur compounds.

Section 4 – First Aid Measures

Description of First Aid Measures

Eyes Rinse eyes and under lids cautiously with clean water for at least 15 minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin No special measures required.

Inhalation Remove person to fresh air away from dust and keep comfortable for breathing. If symptoms

persist, obtain medical attention.

Ingestion No special measures required.

Important Symptoms and Effects (Acute and Delayed)

Eyes May cause eye irritation and may scratch eye surface due to particle abrasion.

Skin None expected

Inhalation May irritate nose and throat if dust is inhaled. May cause coughing, sneezing, and mucous

discharge.

Ingestion None expected.

Recommendations for Immediate Medical Care or Special Treatment

Seek immediate medical attention for inhalation of large quantities of dust. Seek immediate medical attention if material comes to contact with eyes and cannot be immediately removed.

Section 5 – Fire Fighting Measures

General Fire Hazards None. Material is not considered flammable or combustible.

Extinguishing MediaUse water or water spray to extinguish any fires involving this material.

Extinguishing Media to Avoid None. **Hazards of Combustion** None.

Fire Fighting Recommendations Firefighters should always wear full protective gear to fight any fire.

Refer to Section 9 for flammability information.

Section 6 – Accidental Release Measures Precautions Avoid creating dust.

Personal Protection Wear respiratory protection and protective eyewear to avoid eye contact.

Emergency ProceduresVentilate area and avoid creating dust. Remove unnecessary persons from area.

Containment Procedures Barricade solid material to prevent additional spillage.

Clean Up Procedures Scoop or vacuum up spilled material while avoiding dust creation.

Section 7 – Handling and Storage

Safe Handling Practices Avoid contact with eyes. Avoid breathing dust. Use only in well ventilated areas. Wear

appropriate personal protective equipment to prevent eye contact and use respiratory

protection equipment if dusty or in poorly ventilated areas.

Safe Storage Measures Store in dry, well-ventilated areas away from incompatible materials. If stored in containers,

keep containers closed when not in use.

Incompatible Materials Diazomethane, aluminum, phosphorus, strong oxidizers, strong acids [Note: Hygroscopic (i.e.,

absorbs moisture from the air).]

Section 8 – Exposure Controls & Personal Protection

Exposure Limits for Individual Components (T= Total Respirable, R=Respirable fraction, I=Inhalable-aerosol)					
omponent	OSHA PEL	ACGIH TLV	NIOSH REL		
Calcium sulfate dihydrate	15 mg/m3 (T); 5 mg/m3 (R)	10 mg/m3	10 mg/m3 (T); 5 mg/m3 (R)		
Nuisance Dusts (PNOR)	15 mg/m3 (T): 5 mg/m3 (R)	10 mg/m3	Not established		

Exposure Controls

Engineering Controls Use outdoors in well-ventilated areas; otherwise employ natural or mechanical ventilation to

maintain exposure within applicable limits.

Personal Protection Avoid contact with skin or eyes. Avoid creating or breathing dust.

Face and Eyes Safety glasses with side shields or protective goggles should be worn while using this product.

For extremely dusty conditions, non-vented goggles or goggles with indirect venting are

recommended. Avoid contact lens wear when using this product.

Body Long sleeved shirts and trousers should be worn while using this material.

Respiratory If exposure levels cannot be maintained below acceptable limits, suitable particulate-filtering

facemasks or respirators approved by MSHA/NIOSH should be worn in accordance with the

user's respiratory protection program and OSHA/MSHA guidelines.

Hands No special precautions are indicated.

Section 9 – Physical and Chemical Properties					
Physical State	Solid, powder or lumps	Specific Gravity	2.32		
Appearance & Color	White, gray, tan	Flash Point/Method	None. Not flammable.		
Odor	None	Auto Ignition Temperature	Not determined		
рН	5 - 7	Lower Flammability Limit	Not applicable		
Boiling Point	Not applicable	Upper Flammability Limit	Not applicable		
Solubility (Water)	Negligible (<1%)	Octanol/H2O Coefficient	Not determined		
/aporation Rate	Not applicable	Viscosity	Not applicable		
Melting Point	1450°C	Freezing Point	Solid at room temperature		
Vapor Density	Not applicable	Explosion Risk: Static	Not considered a hazard		
Vapor Pressure	Not applicable	Explosion Risk: Shock	Not considered a hazard		

Section 10 - Stability and Reactivity

Reactivity
Chemical Stability
Stable at standard temperature and pressures.
Hazardous Reactions
None. Hazardous polymerization will not occur.

Conditions to Avoid Material is hygroscopic and will absorb moisture from air.

Incompatible Materials

Diazomethane, aluminum, phosphorus, strong acids, strong oxidizers

Calcium oxide and oxides of sulfur generated when material melts

Section 11 – Toxicological Information

Product: Synthetic gypsum

Acute Toxicity Not classified.

LD50/LC50 Data Oral LD50 Rat 3000 mg/kg
Skin Corrosion/Irritation Not reported/no data available.

Critical Eye Damage/Irritation May cause eye injury due to particle abrasion and mechanical irritation.

Respiratory or Skin Sensitization

Germ Cell Mutagenicity

Teratogenicity

Carcinogenicity

Not reported/no data available.

pecific Organ Toxicity (Repeated Exposure) May cause damage to lungs through repeated or prolonged exposure to respirable

dust.

Reproductive Toxicity Not reported/no data available.

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REVISION DATE: 5/14/15

Aspiration Respiratory Hazard

Not reported/no data available.

Symptoms: Inhalation

Coughing, sneezing, mucous discharge.

'ymptoms: Skin Contact

May cause localized reddening through mechanical abrasion.

Symptoms: Eye Contact

Redness and itching. Extended contact may lead to corneal abrasion/ulceration.

Symptoms: Ingestion

Other Toxicological Information

No additional data available.

Components Calcium sulfate dihydrate

Toxicity	Carc: IARC	Carc: NTP	Carc: OSHA
Oral LD50 Rat 3000 mg/kg	Not listed	Not listed	Not listed
No data	Not listed	Not listed	Not listed

Section 12 - Ecological Information

General Ecotoxicity

Nuisance Dusts (PNOR)

Not classified.

Persistence and Degradability **Bioaccumulation Potential**

Mobility in Soil to Groundwater

Not reported/no data available. Not reported/no data available. Not reported/no data available.

Environmental Fate

Not reported/no data available.

Other Environmental

None.

Precautions or Information

Section 13 - Disposal Considerations

Disposal Methods

Dispose as an inert, non-metallic mineral in accordance with applicable federal, state, and local

regulations.

Special Considerations

Avoid creation or breathing dust during disposal. Avoid contact with eyes.

Other Disposal Information

Section 14 – Transport Information

oper Shipping Name

N/A - not regulated.

Hazard Class

N/A - not regulated.

UN Shipping ID Number Packing Group

N/A – not regulated. N/A – not regulated.

Environmental/IMDG Codes

N/A - not regulated.

Section 15 - Regulatory Information

Federal

This product contains one or more chemical components or ingredients that may require identification and/or reporting under SARA Section 302, SARA Section 311/312/313, CERCLA and/or TSCA. An examination of the components of this product should be conducted by a qualified environmental professional to determine if such identification or reporting is required by federal law.

Components: Calcium sulfate dihydrate

State

This product contains one or more chemical components or ingredients that are included or listed on the hazardous substances lists for one or more of the following states: California, Maine, Minnesota, New Jersey, Pennsylvania and Rhode Island. An examination of the components of this product should be conducted by a qualified environmental or safety and health professional to determine the specific requirements for those states.

Components: Calcium sulfate dihydrate

Section 16 – Other Information

Date of last revision: May 14, 2015

Prepared and reviewed by: Holcim (US) Inc. Occupational Safety & Health

Other important information:

'Mhile the information provided in this document is believed to provide a useful summary of the hazards of synthetic gypsum, the formation in this document cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

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The data furnished in this document do not address hazards that may be posed by other materials when mixed with synthetic gypsum. Users should review other relevant safety data sheets before working with this product.

the information presented in the Safety Data Sheet is based on current knowledge and publications and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be interpreted as guaranteeing any specific property of the product.

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