

# Material Safety Data Sheet

Gypblend

SECTION 1: PRODUCT AND COMPANY INFORMATION	
Product Name:	Gypblend
Generic Descriptions:	Calcium Sulfate Dihydrate (CaSO <sub>4</sub> .2H <sub>2</sub> O)
Recommended Use:	Agricultural use
	Green Cal (Thailand) Co., Ltd.
Manufacturer Information:	29, 4J Building Phaholyothin RD., Soi 3, Phayathai, Bangkok 10400
	Tel: +662 2724050-2 Fax: +662 2724053

SECTION 2: HAZARDS IDENTIFICATION		
Appearance and Odor: A grey granular with no odor.		
Contains no asbestos. HN	/IS Hazard Class No.1, 0, 0	
Emergency Overview:	Gypblend Products do not present an inhalation, ingestion, or contact health	
	hazard unless subjected to operations such as sawing, sanding or machining	
	which result in the generation of airborne particulate. This product contains	
	quartz (crystalline silica) as a naturally occurring contaminant. It is	
	recommended that a NIOSH approved particulate respirator be worn whenever	
	working with this product results in airborne dust exposure exceeding the	
	prescribed limits. (See Section 11 -Toxicological Information)	
OSHA Regulatory	While this material is not considered hazardous by the OSHA Hazard	
Status:	Communication Standard (29CFR 1910.1200), this MSDS contains valuable	
	information critical to the safe handling and proper use of the product. This	
	MSDS should be retained and available for employees and other users of this	
	product.	
Potential Health Effects		
Primary Routes of	Inhalation, Dermal contact	
Entry:		
Target Organs:	Respiratory system, skin, eyes.	
Inhalation:	Acute exposure to airborne dust concentrations in excess of the PELfTLV may	
	result in coughing, dyspnea, wheezing, general irritation of the nose, throat, and	



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	upper respiratory tract, and impaired pulmonary function. Chronic exposures	
	may result in lung disease (silicosis and/or lung cancer). (See Section 11 -	
	Toxicological Information)	
	Exposures to respirable crystalline silica have not been documented during	
	normal use of this product. However, good housekeeping practices and	
	industrial hygiene monitoring is recommended when the potential for	
	significant exposure exists	
Skin Contact:	Continued and prolonged contact may result in dry skin. Contact with dust or	
	glass fibers may produce itching, rash and/or redness. Repeated or prolonged	
	exposure may result in dermatitis.	
Eye Contact:	Direct contact may cause mechanical irritation.	
Ingestion:	No known adverse effects. May result in obstruction or temporary irritation of	
	the digestive tract.	

# SECTION 3: COMPOSITIONI INFORMATION ON INGREDIENTS

Component	CAS-Number	% by Weight
Calcium Sulfate Dihydrate (Gypsum)	10101-41-4	<95
Crystalline Silica (Quartz)	14808-60-7	<2

	SECTION 4: FIRST AID MEASURES
Inhalation:	Remove exposed individual to fresh air immediately. If breathing difficulty persists, seek
	medical attention.
Skin:	Flush and wash skin with soap and water. Utilize lotions to alleviate dryness if present.
	Seek medical attention if irritation persists.
Eye:	Immediately flush eyes with water for 15 minutes. Remove contact lenses (if
	applicable). Seek medical attention if irritation persists.
Ingestion:	Calcium Sulphate is non-hazardous and no harmful effects are expected upon ingestion
	of small amounts. Larger amounts may cause abdominal discomfort or possible
	obstruction of the digestive tract. Seek medical attention if problems persist.

SECTION 5: FIRE FIGHTING MEASURES	
Flammable Properties:	Not flammable or combustible
	NFPA Hazard Class No: 1/010

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Gypblend

Extinguishing media:	Dry chemical, foam, water, fog or spray
Protection of firefighters:	Standard protective equipment and precautions
Fire and Explosion Hazards:	None
Hazardous Combustion Products:	None
	Above 1450°C, material can decompose and release sulfur
	dioxide $(S0_2)$ and oxides of carbon.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

- Shovel or scoop up back into container for use if possible, or disposal.
- Wear appropriate Personal Protective Equipment. (See Section 8)
- Maintain proper ventilation.
- Waste material is not a hazardous waste. Dispose of in accordance with applicable federal, state, and local regulations.

# SECTION 7: HANDLING AND STORAGE

- Avoid contact with eyes, skin and clothing.
- Wear recommended personal protective equipment when handling. (See Section 8)
- Avoid breathing dust.
- Minimize generation of dust.
  - Store material in a cool, dry, ventilated area.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION		
Engineering Controls:	Work/Hygiene Practices: The score and snap method of cutting is	
	recommended. Sawing, drilling or machining will produce dust.	
	Ventilation: Provide local and general exhaust ventilation to maintain a dust	
	level below the PEL/TLV.	
	Utilize wet methods, when appropriate, to reduce generation of dust.	
Personal Protective	Respiratory Protection: A NIOSH approved particulate respirator is	
Equipment:	recommended in poorly ventilated areas or if the PELITL V is exceeded.	
	OSHA's 29 CFR 1910.134 (Respiratory Protection Standard) must be followed	
	whenever work conditions require respirator use.	
	Eye Protection: Safety glasses or goggles.	
	Skin: Gloves, protective clothing and/or barrier creams may be utilized if	
	conditions warrant.	



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# Exposure Guidelines

Component	Exposure Limits		
	OSHA PEL (mg/m3)	ACGIH TLV(mg/m3)	NIOSH REL(mg/m3)
Calcium Sulfate Dihydrate (Gypsum)	15 (T),5(R)	10(T)	-
Crystalline Silica (quartz)	0.1 (R)	0.025 (R)	-
Respirable quartz	10 (R)	0.05(R)	0.05(R)

T-Total Dust; R-Respirable Dust

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance: Grey Granular	Flammability: Not Applicable	
Physical State: Solid	Flash Point: Not Applicable	
Bulk Density: 0.93 lb/ft <sup>3</sup>	Upper/Lower explosive limits: Not applicable	
<b>Ph:</b> 7 – 7.5	Auto-ignition temperature: Not Applicable	
Solubility (H20): 2.1 g/L @ 20°C	Partition coefficient: n-octanol/water: Not	
	applicable	
Boiling, Freezing, Melting Point: Not Applicable	Evaporation rate: Not Applicable	
Decomposition Temperature: >1450°C	Molecular weight: Not Applicable	
Vapor pressure: Not Applicable	Taste: Nauseous metallic.	
Vapor density: Not Applicable	Odor: -	
Volatile organic compounds (VOC) content:	Specific Gravity: 2.31- 2.85 g/cc	
None		

SECTION 10: STABILITY AND REACTIVITY		
Chemical stability:	Stable in dry environments.	
Conditions to avoid:	Contact with strong acids may result in generation of carbon dioxide.	
Incompatibility:	None	
Hazardous	Above 1450°C gypsum will decompose to calcium oxide (CaO), with releases	
decomposition:	of sulfur dioxide (S0 $_2$ ) and various oxides of carbon. Will not spontaneously	
	occur. Silica-containing respirable dust particles may be generated by	
	handling.	
Hazardous	Will not occur.	
polymerization:		



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SECTION 11: TOXICOLOGICAL INFORMATION		
Data presented is	for the major component of this product: Gypsum (calcium sulfate dihydrate)	
Human Data:	There is no information on toxicokinetics, metabolism and distribution.	
	There have been reports of irritation to mucus membranes of the eyes and respiratory	
	tract upon acute exposure to dusts in excess of the recommended limits.	
	Chronic exposure to crystalline silica (a naturally occurring contaminant in gypsum) in	
	the respirable size has been shown to cause silicosis, a debilitating lung disease. In	
	addition, the Intenational Agency for Research on Cancer (IARC) classifies crystalline	
	silica inhaled in the form of quartz or cristobalite from occupational sources as	
	carcinogenic to humans, Group 1. The National Toxicology Program (NTP) classifies	
	respirable crystalline silica as a substance which may be reasonably anticipated to be	
	a carcinogen. OSHA does not regulate crystalline silica as a human carcinogen.	
	Industrial hygiene monitoring to date has not identified any detectable respirable	
	crystalline silica in dust sampling conducted during gypsum panel installation utilizing	
	recommended procedures.	
Animal Data:	The acute oral toxicity study [OECD TG 420, Fixed dose procedure] of calcium sulfate	
	dihydrate showed that this chemical did not cause any changes even at 2,000 mg/kg	
	b.w. Therefore, the oral LD50 value was more than 2,000-mg/kg b.w. for female rats	
	(Sprague-Dawley).	
	Calcium sulfate, dihydrate was not irritating to the skin of rabbits at 1, 24, 48 and 72	
	hours after removal of test patches [OECD TG 404]. There is no indication of skin	
	sensitization in guinea pigs [OECD TG 406].	
	Invivo and Invitro studies for mutagenicity were negative.	
	Reproduction/Developmental Toxicity Screening Tests were negative.	

SECTION 12: ECOLOGICAL INFORMATION	
This product does not present an ecological hazard to the environment.	
Ecotoxicological Information	Toxicity studies performed with fish, aquatic
	invertebrates and aquatic plants showed no toxic
	effect.
Environmental Fate	Calcium sulphate a naturally occurring mineral.
	Biodegradation and/or bioaccumulation potential is
	not applicable

# SECTION 13: DISPOSAL



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- Dispose of according to Local, State, Federal, and Provincial Environmental Regulations.
- Recycle if possible.

# SECTION 14: TRANSPORTATION INFORMATION

- This product is not a DOT hazardous material
- Shipping Name: Same as product name
  - ICAO/IATA/IMO: Not applicable

## SECTION 15: REGULATORY INFORMATION

All ingredients are included on the TSCA inventory.

# Federal Regulations

SARA Title III: Not listed under Sections 302,304, and 313

CERCLA: Not listed

RCRA: Not listed

**OSHA:** Dust and potential respirable crystalline silica generated during product use may be hazardous.

## State Regulations

California Prop 65: Respirable crystalline silica is known to the state of California to cause cancer.

Industrial hygiene monitoring during recommended use of this product failed to identify any respirable crystalline silica.

## Canada WHMIS

All components of this product are included in the Canadian Domestic Substances List (DSL). Crystalline silica: WHMIS Classification D2A

## SECTION 16: OTHER INFORMATION

## Issue Date : 11 November 2011

## Revision Date : 17 March 2017

# Key/Legend

ACGIH American Conference of Governmental Industrial Hygienists

- CAS Chemical Abstract Services Number
- CFR Code of Federal Regulations
- DOT Department of Transportation
- EPA Environmental Protection Agency



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- HMIS Hazardous Material Identification System
- IARC International Agency for Research on Cancer

IATA International Air Transport Association

ICAO International Civil Aviation Organization

IMO International Maritime Organization

NIOSH National Institute for Occupational Safety and Health

NFPA National Fire Protection Association

NTP National Toxicology Program

- OSHA Occupational Safety and Health Administration
- PEL Permissible Exposure Limit
- PPE Personal Protective Equipment
- TLV Threshold Limit Value
- TSCA Toxic Substance Control Act

TWA Time Weighted Average

WHMIS Workplace Hazardous Materials Information System

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This material safety data sheet was prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200) and with the Workplace Hazardous Materials Information System (WHMIS).

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