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MATERIAL SAFETY DATA SHEET

SECTION I. PRODUCT IDENTIFICATION

Product name: Calcium Sulfate Dihydrate
Trade name: ACG Food Grade Terra Alba USP
Chemical family: Natural occurring, non-metallic mineral, product of mining
Recommended Use: Food & Pharmaceutical Filler

SECTION II. HAZARD(S) IDENTIFICATION

Emergency Overview This product is not flammable, combustible, or explosive. It does not cause burns or severe skin or eye irritation. A single exposure will not result in serious adverse health effect. Prolonged contact with the product may result in abrasions to the skin or irritation of the eyes. Prolonged inhalation of the dust may irritate the respiratory tract.

Physical hazards Not classified
Health hazards Not classified
Acute:
Eyes Contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician. Eye irritation Category 2, subcategory 2B.
Skin Prolonged contact with the skin may cause irritation. Rubbing of this product against the skin can result in abrasion. Rinse with water until free of material to avoid abrasion, then wash skin thoroughly with mild soap and water. May dry skin. Mild skin irritation Category B.
Inhalation Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Persons exposed to large amounts of this dust may 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.

Environmental hazards Not classified
OSHA defined hazards Not classified

Label elements	
Signal word	Danger
Hazard statement	Causes skin and eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary statement	
Prevention	Wash hands thoroughly after handling. Wear protective gloves. Avoid breathing dust. Wear respiratory protection.
Response	If eye irritation persists, if skin irritation occurs, or if experiencing respiratory symptoms: Get medical advise/attention.
Storage	Store as indicated in Section VII
Disposal	Dispose of in accordance with local, state & federal regulations.
Hazards not otherwise classified (HNOC)	None know

SECTION III. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	CAS #	%
Calcium sulfate dihydrate	10101-41-4	>95
Silicon Dioxide (Crystalline Silica)	14808-60-7	<0.025

Composition comments All concentrations are in percent by weight unless ingredient is a gas.

SECTION IV. FIRST-AID MEASURES

Inhalation	If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.
Skin contact	If on skin: Wash with plenty of water/mild soap and water. Specific treatment: see supplemental first aid instructions on label. If skin irritation occurs: Get medical advise/attention. Take off contaminated clothing and wash before reuse.
Eye contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. If eye irritation persists, Get medical advise/attention.
Ingestion	Unlikely to occur, but may cause gastric disturbances if swallowed. Gypsum is non-toxic.
Most important symptoms/effects, acute and delayed	Under normal conditions of intended use, this product is not expected to be a health risk. Dust may irritate throat and respiratory system and cause coughing.

SECTION V. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials
Unsuitable extinguishing media	Not applicable
Specific hazards arising from the chemical	Not a fire hazard
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific method	Cool material exposed to heat with water spray and remove it if no risk is involved.

SECTION VI. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See Section VIII of the SDS for Personal Protective Equipment
Methods and materials for containment and cleaning up	Remove by dry sweeping or vacuum. Avoid creating excessive dust. It is recommended that gloves and a mask be worn while cleaning the spill. If already mixed with water, scrape up and place in container. Wear appropriate protective equipment as described in Sections VII & VIII.
Environmental precautions	Avoid discharge to drains, sewers, and other water systems.

SECTION VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Do not breathe dust. Use only in well ventilated areas. A NIOSH approved Mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. When using, do not eat or drink. Wash hands before eating, drinking or smoking.
Conditions for safe storage, including any incompatibilities	Keep out of reach of children. Store in a covered, dry climate controlled area, away from incompatible materials listed in Section X.

SECTION VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupations exposure limits

US OSHA Table Z-1 Limits for Air Containments (29CFR 1910.1000)

<u>Components</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Gypsum Anhydrite or Gypsum Anhydrite Blend	PEL	5 mg/m ³	Respirable
Crystalline Silica	TWA	5 mg/m ³	Respirable

US ACGIH Threshold Limit Values

<u>Components</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Gypsum Anhydrite or Gypsum Anhydrite Blend	TWA	10 mg/m ³	Respirable
Crystalline Silica	TWA	0.025 mg/m ³	Respirable

US NIOSH: Pocket Guide to Chemical Hazards

<u>Components</u>	<u>Type</u>	<u>Value</u>	<u>Form</u>
Gypsum Anhydrite or Gypsum Anhydrite Blend	TWA	5 mg/m ³	Respirable
Crystalline Silica	TWA	0.05 mg/m ³	Respirable

Engineering controls

Ventilate to keep exposures below TVL requirements of the individual ingredients. General ventilation is expected to be satisfactory. Use local exhaust ventilation if necessary to control dust.

Respiratory protection

None required where adequate ventilation conditions exist. A NIOSH/MSHA approved dust mask or filtering face piece air is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Consult with respirator manufacturer to determine respirator selection, use and limitations

SECTION IX.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White
Physical state	Powder/Solid
Form	Powder.
Color	White to off-white.
Odor	Low to no odor.
Odor threshold	Not determined.
p-H	6 – 8
Melting point/freezing point	Not applicable/Not applicable.
Initial boiling point	Not applicable.
Boiling Range	Not applicable.
Flash point	Not applicable.
Specific gravity	2.32-2.41
Evaporation rate	Not applicable.

Flammability limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Solubility (in water) (g/100g)	0.205
Auto-ignition temperature	Not applicable.
Evaporation rate	Not applicable.
Decomposition temperature	2642 ⁰ F (1450 ⁰ C)
Viscosity	Not applicable
Upper flammability limit	Not determined.
Lower flammability limit	Not determined.

SECTION X. STABILITY AND REACTIVITY

Conditions of reactivity	Not applicable
Chemical stability	Stable at normal storage conditions and temperature.
Conditions to avoid	Not applicable.
Hazardous decomposition Products	Stable at normal storage conditions and temperature.
Hazardous polymerization	None known.

SECTION XI. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Acute effects	The acute oral toxicity study (OECD TG 420) if calcium sulfate dihydrate showed that this chemical did not cause any changes.
Chronic effects	Crystalline silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, levels must be determined by in-house workplace hygiene testing.

SECTION XII. ECOLOGICAL INFORMATION

Ecotoxicity	There are no known causes from this product that would harm the ecology. The disposal of large quantities directly into waterways would be expected to cause significant aquatic life death.
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SECTION XIII. DISPOSAL CONSIDERATIONS

Disposal procedure	Dispose of product and packaging material in accordance with all applicable federal, state and local regulations. Can be disposed as an inert solid in a landfill. Slurry may plug drains. Do not dispose of directly in waterways or sewers. Recycle Responsibly.
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SECTION XIV. TRANSPORT INFORMATION

DOT	This product is not regulated as a hazardous material by the United States (DOT) transportation regulations.
Canadian Transportation of dangerous goods	Not regulated as dangerous goods.
UN#	None. Not regulated as dangerous goods.
ADNR	None.
RID/ADR	Not classified
Environmental hazards	None.
Annex II of MARPOL 73/78	Not applicable.
International bulk chemical code	Not applicable.

SECTION XV. REGULATORY INFORMATION

U.S. EPA's Toxic Substance Control Act Chemical Substance Inventory	Not listed as reportable quantity or regulated quantity in SARA Title II Sections 302, 304 and 313. CAA Section 112® Regulated Chemicals for Accidental Release Prevention, CERLA Hazardous Substances, and RCRA Hazardous Waste.
Canadian Controlled Product Regulations	Crystalline Silica: IDL* Item #1406 Calcification: D2A.
European Union Directive 67/548/EEC (Annex III and IV)	R36, R37, R38, S37, S3, S39 and S51.

SECTION XVI. OTHER INFORMATION

Issue date	07 November 2016
Further information	NFPA Rating: Health: 1 Flammability: 0 Physical hazard: 0 Hazard scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.