

Safety Data Sheet

Calcium Sulfate

MSDS No. 9652.11

Date of Preparation: 7/16/96

Revision: 5/31/18

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Calcium Sulfate
Synonyms: Gypsum, Calcium Sulfate Dihydrate
General Use: Filler or extender
Manufacturer: The R. J. Marshall Company
26776 W. 12 Mile Road
Southfield, MI 48034-7807
Phone: (248) 353-4100, Fax: (248) 948-6460

Emergency Phone: (800) 424-9300
Date Revised: 5/31/18
Preparer: Stephanie Nichols

HMIS
H 0
F 0
R 0
PPE † E
†Sec. 8

Section 2 - Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200: Not hazardous

Symbol: None

Signal Word: None

Hazard Statements: None

Precautionary Statements: None

Hazards not otherwise classified: None

Section 3 - Composition / Information on Ingredients

There are no ingredients which are classified as a health hazard in accordance with paragraph (d) of 1910.1200.

Section 4 - First Aid Measures

Description of necessary measures, subdivided according to the different routes of exposure:

Inhalation: If overcome by high dust concentrations, remove to a ventilated area.

Eye Contact: Direct contact can cause mechanical irritation of eyes. Remove contact lenses and immediately flush with water. If burning, redness, itching, pain, or other symptoms persist or develop consult a physician.

Skin Contact: Wash skin thoroughly with soap and water. Consult a physician if irritation persists.

Ingestion: Ingestion of very large quantities may result in intestinal obstruction and/or constipation. Considered to be of very low toxicity.

Most important symptoms/effects, acute and delayed: Pre-existing upper respiratory and lung diseases may be aggravated.

Indication of immediate medical attention and special treatment if needed: None known.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: S43: In case of fire use water spray, carbon dioxide, or other dry chemical.

Unsuitable Extinguishing Media: None known.

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: None.

Fire-Fighting Instructions: None

Fire-Fighting Equipment: Decomposes to sulfur dioxide at 1450C. Wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Collect solids by dry sweeping or vacuum. Avoid creating excessive dust. Wear appropriate protective equipment.

Methods and materials for containment and cleaning up: Use normal clean up procedures. No special precautions.

Section 7 - Handling and Storage

Precautions for Safe Handling: Avoid generating dust during handling. Wear the appropriate eye and skin protection against dust. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded.

Storage Requirements: Store in a cool, dry, well-ventilated area away from sources of heat, moisture and incompatibilities.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Respiratory Protection: Use dust mask in dusty conditions.

Protective Clothing/Equipment: S36/37/39: Not required, but gloves may be desirable in specific working conditions or to protect against drying of hands. Use safety glasses as needed.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: S20/21: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Exposure Limits:

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Calcium Sulfate	15 mg/m ³ total dust; 5 mg/m ³ respirable dust	none estab.	10 mg/m ³	none estab.

Section 9 - Physical and Chemical Properties

Appearance: White to off-white powder

Odor: low odor

Odor Threshold: not determined

pH: 7

Freezing/Melting Point: not applicable

Boiling Point: not applicable

Flash Point: None known.

Flash Point Method: not applicable

Evaporation Rate: not applicable

Flammability Classification: Non-flammable

Upper/lower flammability limits: non-flammable

Vapor Pressure: not applicable

Vapor Density (Air=1): not applicable

Relative Density: 2.32

Water Solubility: Slightly soluble

Other Solubilities: not available

Partition coefficient: n-octanol/water; not applicable

Auto-ignition Temperature: Not determined.

Decomposition Temperature: 2642F (1450C)

Viscosity: not applicable

Section 10 - Stability and Reactivity

Reactivity: Reacts with water and produces large amounts of heat.

Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Material is hygroscopic. Avoid damp storage areas or getting the material wet.

Incompatible materials: Acids.

Hazardous Decomposition Products: Above 1450C could produce SO₂ and CaO

Section 11- Toxicological Information

Information on the likely routes of exposure: Inhalation, Eye, Skin, Ingestion.

Symptoms related to the physical, chemical, and toxicological characteristics:

Inhalation: Inhalation of high concentrations of this inert nuisance particulate can result in mild irritation of the respiratory tract.

Eye: May cause irritation through mechanical abrasion.

Skin: May cause irritation through mechanical abrasion.

Ingestion: Unlikely.

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Oral toxicity: Did not cause any changes at 2000 mg/kg b.w.

Eye: Paste applied experimentally to the eyes of rabbits was not an irritant.

Inhalation: Limited studies failed to identify any particular target organs in monkeys, rats, and hamsters.

Mutagenicity: No evidence was found in Ames bacterial tests.

Carcinogenicity: OSHA, NTP, or IARC does not list this product as a carcinogen.

Section 12 - Ecological Information

Ecotoxicity: Toxicity studies performed with fish and aquatic life did not show any toxicity effects.

Persistence and degradability: Not applicable.

Bioaccumulative potential: Not applicable.

Mobility in soil: Not known.

Section 13 - Disposal Considerations

Disposal: Recycle or landfill if possible. This substance is inert and does not require special disposal methods. Do not dispose of directly in sewers or waterways. Follow applicable Federal, state, and local regulations.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101): This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.

UN Number: not classified as dangerous goods

UN proper shipping name: not classified as dangerous goods

Transport hazard classes: None

Packaging group: None

Environmental hazards: None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No hazardous goods.

Special precautions for user: None

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number (40 CFR 261.33): Not listed

RCRA Hazardous Waste Classification: Not classified

CERCLA Hazardous Substance (40 CFR 302.4): Not listed

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA

This substance or all of its components are on the Chemical Substances Inventory of the Toxic Substance Control Act (TSCA Inventory [USA]). Please note that this product is not subject to any legal reporting requirements under these acts.

INTERNATIONAL REGULATIONS

Australia: Listed on AICS.

Canada: Listed on the DSL.

China: Present

Europe: Listed on EINECS #231-900-3.

Japan: Listed on ENCS #1-193.

Korea: Listed on Existing and Evaluated Chemical Substances. #KE-04614

Philippines: Listed on PICCS.

Section 16 - Other Information

Prepared By: Stephanie Nichols

Revision Notes:

Product Grades Available from the R. J. Marshall Company (this list may be incomplete):

CS265	CS265X	CS280	CS290
-------	--------	-------	-------

Disclaimer: Information contained herein is presented in good faith and is based on data believed to be accurate. However no warranty is expressed or implied regarding this information or the results obtained from the use of this Safety Data Sheet, whether it originates with The R. J. Marshall Company or others. This Safety Data Sheet relates only to the specific material designated herein. It does not relate to use with other material or processes. This information is supplied with the condition that the user will make appropriate determination as to its suitability for their purpose prior to using it.