



SAFETY DATA SHEET

Diamond K Gypsum, Inc.

Product: Diamond K Prilled Gypsum

Version: 1.0

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Revision Date: 1/1/2025

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name/Trade Name(s): Diamond K Prilled Gypsum

Common Name: Calcium sulfate dihydrate, gypsum

Chemical Name: Calcium sulfate dihydrate

Chemical formula: $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$

Manufacturer or Supplier's Details:

Company name of supplier: Diamond K Gypsum, Inc.

Address: 1720 S Red Hills Drive
Richfield, Utah

Telephone:.....(435)896-8870

Emergency Phone:.....(435)896-8870

Recommended use of the chemical and restrictions on use:

Recommended Use: Agricultural soil amendment

Restrictions on use: For agricultural use only

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture

GHS Label elements

Not a hazardous substance or mixture

Potential Health Effects

Carcinogenicity:

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

NTP

The NTP's Report on Carcinogens lists crystalline silica (respirable size) as a known human carcinogen.

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients

Chemical Name	CAS-No.	Typical composition (%)
Calcium Sulfate Dihydrate (alternative CAS 10101-41-4)	13397-24-5	85-95%
Proprietary Binder		2-6%

Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.1%. Exposures to respirable crystalline silica during the normal use of this product should be determined by workplace hygiene testing.

SECTION 4 – FIRST AID MEASURES

If inhaled: Dust may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures in excess of appropriate exposure limits. Move to fresh air in case of accidental inhalation of dust. If symptoms persist, call a physician.

In case of skin contact: Direct contact may cause irritation by mechanical abrasion. Wash off with soap and plenty of water.

In case of eye contact: Direct contact with dust may cause irritation by mechanical abrasion. Do not rub eye. Flush eye thoroughly with water. Keep eye wide open while rinsing. Remove contact lenses. If irritation occurs, get medical assistance.

If swallowed: Intestinal obstruction may occur if the material hardens, especially in the pyloric region. Rinse mouth thoroughly with water and drink afterwards plenty of water to dilute material in stomach. Do not induce vomiting. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: Non-Flammable

Suitable extinguishing media: This material is not combustible. Appropriate extinguishing media for surrounding fire should be used.

Hazardous combustion products: None. Above 1450°C, material can decompose and release sulfur dioxide (SO₂) and oxides of carbon.

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Use dry methods to collect spilled materials, and reuse clean materials. Avoid generating dust. Do not clean up with compressed air. Minimize dust exposure by evacuating area downwind in the case of large spills. Store contaminated materials in dry, sealed plastic or non-aluminum metal containers. Residues on surfaces may be washed with water.

Environmental precautions: No special environmental precautions required.



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SECTION 7 – HANDLING AND STORAGE

Advice on Safe Handling:

Ensure proper ventilation, and respiratory and eye protection are used under dusty conditions.

Conditions for safe storage:

Dew point conditions or other conditions causing presence of moisture will harden gypsum during storage. Store in a cool, dry, well-ventilated place away from incompatible materials.

Materials to avoid:

Avoid contact with Acids, and moisture during storage.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	CAS #	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Calcium Sulfate Dihydrate (Gypsum)	13397-24-5 (alternative CAS 10101-41-4)	TWA (Total Dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
Silica, crystalline (quartz)	14808-60-7	TWA (respirable fraction)	0.05 mg/m3	OSHA Z-1
		TWA (respirable fraction)	0.05 mg/m3	NIOSH REL
		TWA (respirable fraction)	0.025 mg/m3	ACGIH
		TWA (respirable fraction)	0.1 mg/m3	OSHA P0
		TWA (respirable fraction)	10 mg/m3 / %SiO ₂ + 2	OSHA Z-3
		TWA (respirable fraction)	250 mppcf / %SiO ₂ + 5	OSHA Z-3

Personal Protective Equipment

Respiratory Protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection remarks:

It is good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Eye protection:

Approved safety goggles recommended in dusty conditions

Ventilation:

Local exhaust ventilation recommended

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Granular mix
Color:	Light brown
Odor:	Slight mineral odor
pH:	6-8
Boiling/Melting Point:	N/A
Flash Point:	Non-Flammable
Flammability (solid, gas):	Does not ignite
Vapor Pressure:	N/A
Specific Gravity:	2.3-2.75 g/ml
Solubility in Water:	2.1 g/L @ 20°C
Thermal Decomposition:	1450°C

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:

Stable under recommended storage conditions.

Chemical Stability:

Material is stable under normal conditions.



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Incompatibility (Material to Avoid): Acids, Aluminum (at high temperatures), diazomethane

Hazardous Decomposition Products: Calcium oxides, Sulfur Dioxide, Carbon Dioxide, Carbon Monoxide

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: Inhalation of dusts may cause respiratory irritation. Prolonged and repeated exposure to airborne respirable crystalline silica can cause silicosis and/or lung cancer.

Ingestion: May cause discomfort if swallowed.

Skin contact: Under normal conditions of intended use, this product does not pose a skin hazard.

Eye contact: Direct contact with airborne particulates may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics: Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.

Information on toxicological effects

Acute toxicity: Not expected to be a hazard under normal conditions of intended use.

Skin corrosion/irritation: Not a skin irritant.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization: Not a respiratory sensitizer.

Skin sensitization: Not a skin sensitizer.

Germ cell mutagenicity: Data does not suggest that this product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

Reproductive toxicity Not expected to be a reproductive hazard.

STOT-repeated exposure Not classified

Aspiration hazard Due to the physical form of the product it is not an aspiration hazard.

Chronic effects Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust should be monitored and controlled.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.



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Ingredients:

Toxicity to fish: LC50 (Pimephales promelas (Fathead minnow)): >1970 mg/l
Exposure time: 96 h

Persistence and degradability: Calcium sulfate dissolves in water forming calcium and sulfate ions

Bioaccumulative potential: Bioaccumulation is not expected

Other adverse effects: None expected

SECTION 13 – DISPOSAL CONSIDERATIONS

May be disposed of as an inert solid in sanitary landfill or by other procedures in accordance with all federal, state, and local regulations. May be used as a supplement on land and on some agricultural products.

SECTION 14 – TRANSPORT INFORMATION

DOT Hazard Classification: None

Placard Required: None

SECTION 15 – REGULATORY INFORMATION

OSHA Hazards: No OSHA hazards

EPCRA – Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ

SARA 311/312 Hazards:

No SARA Hazards

SARA 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III< Section 313.

Clean Air Act:

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This Product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F)

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489)

Clean Water Act:

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3

This Product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307



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California Proposition 65:



WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov.

TSCA:

This product primarily is natural calcium sulfate dihydrate (gypsum) which is listed on the U.S. EPA. In addition, all other ingredients and/or processing aids are also on the TSCA inventory.

DSL:

By virtue of its status as a "substance occurring in nature", ground gypsum is considered to be on the Canadian Domestic Substances List. In addition, all other ingredients and/or processing aids are also on the DSL.

ODCs:

This product does not contain, nor is it produced with, any U.S. EPA-defined Class I or Class II ozone-depleting chemicals.

SECTION 16 – OTHER INFORMATION

Prepared by Technical Support Group

The information contained herein has been compiled by Diamond K Gypsum Inc. from sources it considers reliable, and is accurate to the best of Diamond K Gypsum's knowledge. Before using the product identified hereon, the foregoing SDS and the product label should be read carefully. The information contained herein relates only to the product identified hereon, and does not relate to its use in combination with any other material or in any process. Customers are encouraged to conduct their own tests concerning the use of the product identified hereon as each customer's manner and conditions of use and handling may involve additional considerations. Diamond K Gypsum Inc. assumes and shall incur no liability for any damages, losses, injuries, costs, or consequential damages that may result from the uses or misuse of the product identified hereon, and the recipient assumes all of such liability.