

SAFETY DATA SHEET

1. Identification

Product identifier	Calcium Sulfate Feed Grade	
Other means of identification		
SDS number	5200000034	
Additional products	Hydrous Calcium Sulfate	
Synonyms	Filler	
Recommended use	Animal Feed.	
Recommended restrictions	Use in accordance with manufacturer's recommendations.	
Manufacturer/Importer/Supplier/Distributor information		
Company name	United States Gypsum Company	
Address	550 West Adams Street	
	Chicago, Illinois 60661-3637	
Telephone	1-800-874-4968	
Website	www.usg.com	

2. Hazard(s) identification

Emergency phone number 1-800-507-8899

Physical hazards	Not classified.	
Health hazards	Carcinogenicity	Category 1A
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	May cause cancer.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention.
Storage	Store locked up.
Disposal	Dispose of in accordance with local, state, and federal regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

CAS number	%
13397-24-5	> 82
CAS number	%
14808-60-7	< 0.75
	13397-24-5

Composition comments	All concentrations are in percent by weight unless ingredient is a gas.	
	Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.75%. Exposures to respirable crystalline silica during the normal use of this product must be determined by workplace hygiene testing.	
4. First-aid measures		
Inhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.	
Skin contact	Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.	
Eye contact	Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved.	
5. 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 methods	Cool material exposed to heat with water spray and remove it if no risk is involved.	
6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective Equipment.	
Methods and materials for containment and cleaning up	Vacuum up the spilled material. Vacuums used for this purpose should be equipped with HEPA filters. Containers must be labeled. Collect in approved containers and seal securely. For waste disposed use Section 13 of the SDS	

disposal, see Section 13 of the SDS.

Avoid discharge to drains, sewers, and other water systems.

Environmental precautions

7. Handling and storage

Precautions for safe handling Minimize dust production when mixing, or opening and closing bags. Avoid inhalation of dust. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices and use appropriate lifting techniques.

Conditions for safe storage, Store in a co including any incompatibilities with acids, w

Store in a cool, dry, well-ventilated place. Store away from incompatible materials. Avoid contact with acids, water, and moisture.

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	PEL	5 mg/m3	Respirable fraction.
US. OSHA Table Z-3 (29 CF	FR 1910.1000)	15 mg/m3	Total dust.
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.3 mg/m3	Total dust.
US. ACGIH Threshold Limi	t Values	0.1 mg/m3	Respirable.
Components	Type	Value	Form
Calcium sulfate dihydrate	TWA	10 mg/m3	Inhalable fraction.
(alternative CAS 10101-41-4) (CAS 13397-24-5)	IWA	To fights	
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide t	o Chemical Hazards		
Components	Туре	Value	Form
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	5 mg/m3	Respirable.
Impurities	Туре	10 mg/m3 Value	Total Form
Crystalline silica (Quartz)	TWA	0.05 mg/m3	Respirable dust.
(CAS 14808-60-7)			
ogical limit values	No biological exposure limits noted for	• • • •	
ropriate engineering trols	Provide sufficient ventilation for operate exposure limits and minimize the risk of		bserve occupational
-	s, such as personal protective equipme Wear approved safety goggles.	ent	
Skin protection			
Hand protection	It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated s contact use suitable protective gloves.		prolonged or repeated skir
Other	Normal work clothing (long sleeved sh		ended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have no been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirat for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.		
Thermal hazards	None.		
Thermal hazards eral hygiene	None. Always observe good personal hygien and before eating, drinking, and/or sm		

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Powder.
Color	White to off-white.
Odor	Low to no odor.
Odor threshold	Not applicable.
рН	6 - 8
Melting point/freezing point	Not applicable. Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.96 (H2O=1)
Solubility(ies)	
Solubility (water)	0.15 - 0.4 g/100 g (H2O)
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	2642 °F (1450 °C)
Viscosity	Not applicable.
Other information	
Bulk density	55 - 70 lb/ft ³
Particle size	Varies.
VOC (Weight %)	0 %
10. Stability and reactivity	
Reactivity	The product is stable and non reactive under normal conditions of storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials. Exposure to moisture.
Incompatible materials	Acids. Crystalline silica in contact with powerful oxidizing agents, such as fluorine, chlorine trifluoride and oxygen difluoride, may cause fires. Crystalline silica will dissolve in hydrofluoric acid and produce a corrosive gas, silicon tetrafluoride.
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Hazardous decomposition products

11. Toxicological information

Information on likely routes of o	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.
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.

Calcium oxides, carbon dioxide, and carbon monoxide.

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Ingestion	May cause discomfort if swallowed.		
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 effe	ects		
Acute toxicity	Not expected to be a haza	rd 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 sensitize	r.	
Skin sensitization	Not a skin sensitizer.		
Germ cell mutagenicity	mutagenic or genotoxic.	t this product or any components present at greater than 0.1% are	
Carcinogenicity	Repeated and prolonged e cancer.	exposures to high levels of respirable crystalline silica may cause	
IARC Monographs. Overall	-	-	
Crystalline silica (Quartz) NTP Report on Carcinogens		1 Carcinogenic to humans.	
Crystalline silica (Quartz) OSHA Specifically Regulate		Known To Be Human Carcinogen. 0.1001-1050)	
Not listed.	Not listed.		
Reproductive toxicity	Not expected to be a reproductive hazard.		
Specific target organ toxicity - single exposure	No data available, but none expected.		
Specific target organ toxicity - repeated exposure	Not classified. For detailed information, see section 16.		
Aspiration hazard	Due to the physical form of the product it is not an aspiration hazard.		
Chronic effects	Prolonged and routine inhalation of high levels of respirable crystalline silica particles can lead to the lung disease known as silicosis. Some studies show excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease in workers exposed to respirable crystalline silica. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.		
12. Ecological information	1		
Ecotoxicity	The product components a	are not classified as environmentally hazardous. However, this does not large or frequent spills can have a harmful or damaging effect on the	
Components	Species	Test Results	
Calcium sulfate dihydrate (alte	ernative CAS 10101-41-4) (0	CAS 13397-24-5)	
Aquatic			
Fish	LC50 Fathead m	innow (Pimephales promelas) > 1970 mg/l, 96 hours	
Persistence and degradability	Calcium sulfate dissolves in water forming calcium and sulfate ions.		
Bioaccumulative potential	Bioaccumulation is not expected.		
Mobility in soil	No data available.		
Other adverse effects	None expected.		
13. Disposal consideration	ns		
Disposal instructions	-	h applicable federal, state, and local regulations. Recycle responsibly.	
Local disposal regulations	Dispose of in accordance	with local regulations.	
Hazardous waste code	Not regulated.		
Waste from residues / unused products	Dispose of in accordance	-	
	Disease of in accordance		

Contaminated packaging Dispose of in accordance with local regulations.

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14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC code. Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (OSHA) and 8 CCR § 5194 (Cal/OSHA).

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No **Delayed Hazard - Yes** Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes chemical

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5) Crystalline silica (Quartz) (CAS 14808-60-7)

US. New Jersey Worker and Community Right-to-Know Act

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5) Crystalline silica (Quartz) (CAS 14808-60-7)

US. Pennsylvania Worker and Community Right-to-Know Law

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5) Crystalline silica (Quartz) (CAS 14808-60-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Crystalline silica (Quartz) (CAS 14808-60-7)

International Inventories

Country(s) or region

Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	06-August-2014
Revision date	11-June-2015
Version #	02
Further information	Crystalline silica: Raw materials in this product may contain respirable crystalline silica. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.
	NFPA Ratings: Health: 1 Flammability: 0 Physical hazard: 0
	Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
NFPA ratings	

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.