

SAFETY DATA SHEET

1. Identification

Product identifier	USG Ben Franklin® Agricultural Gypsum
Other means of identification	
SDS number	5200000030
Synonyms	Agricultural Gypsum
Recommended use	Agricultural or Soil Amendment.
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
Emergency phone number	1-800-507-8899

2. Hazard(s) identification

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



	▼
Signal word	Danger
Hazard statement	May cause cancer by inhalation.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust. 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 contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name		CAS number	%
Calcium sulfate dihydrate (alternative CAS 10101-41-4)		13397-24-5	< 90
Calcium sulfate anhydrite		7778-18-9	< 10
Dolomite		16389-88-1	< 2
Impurities			
Chemical name	Common name and synonyms	CAS number	%
Crystalline silica (Quartz)		14808-60-7	< 1

Composition comments	All concentrations are in percent by weight.	
	Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 1%. 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. Prolonged exposure may cause chronic effects.	
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.	
General fire hazards	No unusual fire or explosion hazards noted.	
6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. 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 disposal, see Section 13 of the SDS.	
Environmental precautions	Avoid discharge to drains, sewers, and other water systems.	
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	

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 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

including any incompatibilities

US. OSHA Specifically Regulated	d Substances (29 CFR 1910.100	1-1053)	
Impurities	Туре	Value	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	

US. OSHA Table Z-1 Permissible Exposu Components	re Limits (PEL) for Air Contaminant Type	s (29 CFR 1910.100 Value	0) Form
Calcium sulfate anhydrite (CAS 7778-18-9)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
JS. OSHA Table Z-3 Permissible Exposu Components	re Limits (PEL) for Mineral Dusts (2 Type	9 CFR 1910.1000) Value	Form
Calcium sulfate anhydrite (CAS 7778-18-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Dolomite (CAS 16389-88-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
mpurities	Туре	Value	Form
Crystalline silica (Quartz) CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.
JS. ACGIH Threshold Limit Values (TLV)			
Components	Туре	Value	Form
Calcium sulfate anhydrite CAS 7778-18-9)	TWA	10 mg/m3	Inhalable fraction.
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	10 mg/m3	Inhalable fraction.
mpurities	Туре	Value	Form
Crystalline silica (Quartz) CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
NOSH. Immediately Dangerous to Life o mpurities	r Health (IDLH) Values, as amended Type	Value	
Crystalline silica (Quartz) CAS 14808-60-7)	IDLH	50 mg/m3	
US. NIOSH: Pocket Guide to Chemical Ha	azards		
Components	Туре	Value	Form
Calcium sulfate anhydrite (CAS 7778-18-9)	TWA	5 mg/m3	Respirable.

US. NIOSH: Pocket Guide to Chemical Hazards Components Type

Components	Туре	Value	Form
		10 mg/m3	Total
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Impurities	Туре	Value	Form
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.
Biological limit values	No biological exposure limits noted for	the ingredient(s).	
Appropriate engineering controls	Provide sufficient ventilation for operati exposure limits and minimize the risk o		Observe occupational
Individual protection measures	s, such as personal protective equipme	nt	
Eye/face protection	Wear approved safety goggles.		
Skin protection			
Hand protection	It is a good industrial hygiene practice contact use suitable protective gloves.	to minimize skin contact. For	prolonged or repeated skin
Skin protection			
Other	Normal work clothing (long sleeved shi	rts and long pants) is recomm	nended.
Respiratory protection	If engineering controls do not maintain limits (where applicable) or to an accep been established), an approved respira if there is a risk of exposure to dust/fun	otable level (in countries wher ator must be worn. Use a NIO	e exposure limits have not SH/MSHA approved respirator
Thermal hazards	None.		
General hygiene considerations	Always observe good personal hygiene and before eating, drinking, and/or smo equipment separately from regular was	oking. Routinely wash work cl	othing and protective

9. Physical and chemical properties

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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 expl	osive limits
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/100g

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/ft³
Particle size	Varies.
VOC	0 %

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, 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.
Hazardous decomposition products	Calcium oxides, carbon dioxide, and carbon monoxide.

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.
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.
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. Prolonged exposure may cause chronic effects.

Information on toxicological effects

Acute toxicity	Not expected to be acutely	y toxic.
Components	Species	Test Results
Calcium sulfate anhydrite (CAS	7778-18-9)	
Acute		
Inhalation		
LC50	Rat	> 3.26 mg/l, 4 Hours
Oral		
LD50	Rat	> 1581 mg/kg
Skin corrosion/irritation	Not a skin irritant.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	on	
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	Repeated and prolonged exposures to high levels of respirable crystalline silica may cause cancer.	
IARC Monographs. Overal	I Evaluation of Carcinogenio	city
Crystalline silica (Quartz) (CAS 14808-60-7)		1 Carcinogenic to humans.
NTP Report on Carcinoger	IS	
Crystalline silica (Quartz) (CAS 14808-60-7)		Known To Be Human Carcinogen.

OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1053)
Crystalline silica (Quartz)	(CAS 14808-60-7) Cancer
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	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

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.

Components		Species	Test Results
Calcium sulfate dihydrate (al	ternative CA	S 10101-41-4) (CAS 13397-	24-5)
Aquatic			
Fish	LC50	Fathead minnow (Pim	ephales promelas) >1970 mg/l, 96 hours
Persistence and degradability	Calcium s	ulfate dissolves in water for	ming calcium and sulfate ions.
Bioaccumulative potential	Bioaccumulation is not expected.		
Mobility in soil	No data a	vailable.	
Other adverse effects	None exp	ected.	

13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

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
Annex II of MARPOL 73/78 and
the IBC CodeNot applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency	release notification		
Not regulated.			
OSHA Specifically Reg		-	
Crystalline silica (Q	uartz) (CAS 14808-60-7)) Cancer lung effects immune system effects kidney effects	
Toxic Substances Control	Act (TSCA)	All components are either listed on the TSCA designated "active" or exempt from listing.	(b) inventory and
Superfund Amendments and R	eauthorization Act of 1	986 (SARA)	
SARA 302 Extremely hazar	dous substance		
Not listed.			
SARA 311/312 Hazardous chemical	Yes		
Classified hazard categories	Carcinogenicity		
SARA 313 (TRI reporting) Not regulated.			
Other federal regulations			
Clean Air Act (CAA) Sectio	n 112 Hazardous Air P	ollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectio	n 112(r) Accidental Rel	lease Prevention (40 CFR 68.130)	
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
US state regulations			
US. Massachusetts RTK - S			
Calcium sulfate anhydrit Calcium sulfate dihydrat Crystalline silica (Quartz US. New Jersey Worker an	e (alternative CAS 1010) (CAS 14808-60-7)	1-41-4) (CAS 13397-24-5) Know Act	
Calcium sulfate anhydrit	e (CAS 7778-18-9) e (alternative CAS 1010	1-41-4) (CAS 13397-24-5)	
US. Pennsylvania Worker a	, , , ,	o-Know Law	
Calcium sulfate anhydrit Calcium sulfate dihydrat Crystalline silica (Quartz US. Rhode Island RTK	e (alternative CAS 1010	1-41-4) (CAS 13397-24-5)	
Calcium sulfate anhydrit Calcium sulfate dihydrat Crystalline silica (Quartz Dolomite (CAS 16389-8	e (alternative CAS 1010) (CAS 14808-60-7)	1-41-4) (CAS 13397-24-5)	
California Proposition 65			
		you to Crystalline silica (Quartz), which is known e information go to www.P65Warnings.ca.gov.	n to the State of California
California Proposition	65 - CRT: Listed date/C	Carcinogenic substance	
-	uartz) (CAS 14808-60-7)	-	
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory	of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances	s List (DSL)	Yes
Canada	Non-Domestic Substa	ances List (NDSL)	No

China

Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply 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	03-November-2017
Revision date	09-July-2024
Version #	03
Further information	Crystalline silica: Raw materials in this product contain respirable crystalline silica as an impurity. 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.