# SAFETY DATA SHEET

# 1. Identification

**Product identifier USG Ben Franklin® Agricultural Gypsum** 

Other means of identification

52000000030 SDS number **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

1-800-874-4968 Telephone 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

May cause cancer by inhalation. **Hazard statement** 

**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.

If exposed or concerned: Get medical advice/attention. Response

Store locked up. Storage

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal** 

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

USG Ben Franklin® Agricultural Gypsum SDS US

920368 Version #: 03 Revision date: 09-July-2024 Issue date: 03-November-2017

#### **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

Eve 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. Not applicable.

Unsuitable extinguishing media

Specific hazards arising from

Not a fire hazard.

the chemical 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

Specific methods

equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials.

Cool material exposed to heat with water spray and remove it if no risk is involved.

No unusual fire or explosion hazards noted. General fire hazards

### 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 industrial hygiene practices and use appropriate lifting techniques.

Conditions for safe storage, including any incompatibilities 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 Specifically Regulated Substances (29 CFR 1910.1001-1053)

Impurities	Туре	Value
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3

2/8 920368 Version #: 03 Revision date: 09-July-2024 Issue date: 03-November-2017

Components	Туре	Value	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 Exposur Components	e Limits (PEL) for Mineral Dusts (2 Type	29 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.
Oolomite (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.
NIOSH. Immediately Dangerous to Life or mpurities	Health (IDLH) Values, as amended Type	d Value	
Crystalline silica (Quartz) (CAS 14808-60-7)	IDLH	50 mg/m3	
JS. NIOSH: Pocket Guide to Chemical Haz Components	zards Type	Value	Form
Calcium sulfate anhydrite	TWA	5 mg/m3	Respirable.

US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Type	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	

No biological exposure limits noted for the ingredient(s). **Biological limit values** 

Appropriate engineering controls

(CAS 14808-60-7)

Crystalline silica (Quartz)

Provide sufficient ventilation for operations causing dust formation. Observe occupational

0.05 mg/m3

Respirable dust.

exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

Skin protection

It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin **Hand protection** 

contact use suitable protective gloves.

TWA

Skin protection

Normal work clothing (long sleeved shirts and long pants) is recommended. Other

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 not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator

if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards None.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment separately from regular wash. Observe any medical surveillance requirements.

### 9. Physical and chemical properties

**Appearance** 

**Physical state** Solid. Powder. **Form** 

Color White to off-white. Low to no odor. Odor **Odor threshold** Not applicable.

6 - 8

Not applicable. Melting point/freezing point

Not applicable.

Initial boiling point and boiling

range

Not applicable.

Not applicable.

Not applicable. Flash point **Evaporation rate** Not applicable. Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)

Explosive limit - upper (%) Not applicable. Vapor pressure Not applicable. Vapor density Not applicable. 2.96 (H2O=1) Relative density

Solubility(ies)

0.15 - 0.4 g/100g Solubility (water)

Partition coefficient (n-octanol/water)

Not applicable.

Auto-ignition temperature Decomposition temperature Not applicable. 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 Hazardous polymerization does not occur.

reactions

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 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

**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. Overall Evaluation of Carcinogenicity

Crystalline silica (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

NTP Report on Carcinogens

Crystalline silica (Quartz) (CAS 14808-60-7)

Known To Be Human Carcinogen.

USG Ben Franklin® Agricultural Gypsum

920368 Version #: 03 Revision date: 09-July-2024 Issue date: 03-November-2017

5 / 8

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline silica (Quartz) (CAS 14808-60-7)

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 (alternative CAS 10101-41-4) (CAS 13397-24-5)

**Aquatic** 

Fish LC50 Fathead minnow (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.

No data available. Mobility in soil Other adverse effects None expected.

# 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.

#### IATA

Not regulated as dangerous goods.

#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according to

Not applicable.

Annex II of MARPOL 73/78 and the IBC Code

# 15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations** 

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.

6/8 920368 Version #: 03 Revision date: 09-July-2024 Issue date: 03-November-2017

# SARA 304 Emergency release notification

Not regulated.

# OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline silica (Quartz) (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 8(b) inventory and

designated "active" or exempt from listing.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

**Classified hazard** 

Carcinogenicity

categories

# 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 anhydrite (CAS 7778-18-9)

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 anhydrite (CAS 7778-18-9)

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 anhydrite (CAS 7778-18-9)

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Crystalline silica (Quartz) (CAS 14808-60-7)

#### US. Rhode Island RTK

Calcium sulfate anhydrite (CAS 7778-18-9)

Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)

Crystalline silica (Quartz) (CAS 14808-60-7)

Dolomite (CAS 16389-88-1)

#### California Proposition 65



WARNING: This product can expose you to Crystalline silica (Quartz), which is known to the State of California

to cause cancer. For more information go to www.P65Warnings.ca.gov.

# California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline silica (Quartz) (CAS 14808-60-7) Listed: October 1, 1988

# International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

USG Ben Franklin® Agricultural Gypsum SDS US 920368 Version #: 03 Revision date: 09-July-2024 Issue date: 03-November-2017

Country(s) or region Inventory name On inventory (yes/no)\* Europe

European Inventory of Existing Commercial Chemical

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe 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 Yes

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) Yes Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico Yes

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

03-November-2017 Issue date 09-July-2024 **Revision date** 

Version #

**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.

SDS US 920368 Version #: 03 Revision date: 09-July-2024 8/8 Issue date: 03-November-2017

<sup>\*</sup>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).