# USG

# SAFETY DATA SHEET

## 1. Identification

Product identifier USG Ben Franklin® No.1 Agricultural Gypsum

Other means of identification

SDS number 5200000155
Synonyms Agricultural Gypsum

**Recommended use** Agriculture 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	< 5
Dolomite	16389-88-1	< 2

#### **Impurities**

Chemical name	Common name and synonyms	CAS number	%
Crystalline silica (Quartz)		14808-60-7	< 1

USG Ben Franklin® No.1 Agricultural Gypsum SDS US

#### **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.

Unsuitable extinguishing

media

Not applicable.

Not a fire hazard.

Specific hazards arising from

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.

General fire hazards

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

See Section 8 of the SDS for Personal Protective Equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

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

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US. OSHA Table Z-1 Permissible Exposur Components	Type	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 ( 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.
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.
NIOSH. Immediately Dangerous to Life or Impurities	Health (IDLH) Values, as amende Type	d Value	
Crystalline silica (Quartz) (CAS 14808-60-7)	IDLH	50 mg/m3	
US. NIOSH: Pocket Guide to Chemical Ha	zards		
Components	Туре	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	Type	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 Always observe good personal hygiene measures, such as washing after handling the material considerations 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** 

Solid. Physical state 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/100 g (H2O) Solubility (water)

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Partition coefficient (n-octanol/water)

Not applicable.

**Auto-ignition temperature** Not applicable. **Decomposition temperature** 2642 °F (1450 °C) **Viscosity** Not applicable.

Other information

55 - 70 lb/ft3 **Bulk density Explosive properties** Not explosive. Not oxidizing. Oxidizing properties Particle size Varies.

VOC Not applicable.

# 10. Stability and reactivity

Reactivity The product is stable and non reactive under normal conditions of storage and transport.

Material is stable under normal conditions. Chemical stability 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.

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

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

Not expected to be acutely toxic. **Acute toxicity** 

Components **Species Test Results** 

Calcium sulfate anhydrite (CAS 7778-18-9)

Acute

Inhalation

Rat LC50 > 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

Not a respiratory sensitizer. Respiratory sensitization Skin sensitization Not a skin sensitizer.

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

mutagenic or genotoxic.

Repeated and prolonged exposures to high levels of respirable crystalline silica may cause Carcinogenicity

cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

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

USG Ben Franklin® No.1 Agricultural Gypsum 5/8 **NTP Report on Carcinogens** 

Crystalline silica (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

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 -

No data available, but none expected.

single exposure

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

Cancer

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

The product components are not classified as environmentally hazardous. However, this does not **Ecotoxicity** 

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Components **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.

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

13. Disposal considerations

Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly. **Disposal instructions** 

Dispose of in accordance with local regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose in accordance with local regulations.

Dispose of in accordance with local regulations. Contaminated packaging

#### 14. Transport information

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

**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.

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#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

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

luna effects

immune system effects

kidney effects

All components are either listed on the TSCA 8(b) inventory and **Toxic Substances Control Act (TSCA)** 

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

categories

Carcinogenicity

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)

> Domestic Substances List (DSL) Yes

Canada Canada Non-Domestic Substances List (NDSL) No

Nο

Country(s) or region Inventory name On inventory (yes/no)\* China Inventory of Existing Chemical Substances in China (IECSC) Europe European Inventory of Existing Commercial Chemical Nο Substances (EINECS) Europe European List of Notified Chemical Substances (ELINCS) No Inventory of Existing and New Chemical Substances (ENCS) Japan No Korea Existing Chemicals List (ECL) Yes New Zealand **New Zealand Inventory** Yes

> Philippine Inventory of Chemicals and Chemical Substances (PICCS)

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

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

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

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)

Yes

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

Philippines



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.

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<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).