USG

SAFETY DATA SHEET

1. Identification

Product identifier USG Anhydrite Gypsum

Other means of identification

SDS number 52000000153

Additional products 2A ANHYDRITE ROCK, Anhydrite Shot Rock

Synonyms Gypsum Anhydrite

Recommended use Cement Manufacturing

Recommended restrictionsUse 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 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.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Calcium sulfate	7778-18-9	> 60
Calcium sulfate dihydrate (alternative CAS 10101-41-4)	13397-24-5	< 40

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Impurities

CAS number **Chemical name** % < 0.25 Crystalline silica (Quartz) 14808-60-7

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 < 0.25%. 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

Dust may irritate eves and mucous membranes of the nose, throat and upper respiratory system

symptoms persist.

Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or Skin contact

persists.

Eve contact Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical

assistance.

Rinse mouth. Get medical attention if symptoms occur. Ingestion

Most important

symptoms/effects, acute and

delaved 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.

causing sneezing and/or coughing.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

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.

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

Fire fighting equipment/instructions

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

Specific methods

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.

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8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value		
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3		
•	for Air Contaminants (29 CFR 1910.1000)			
Components	Type	Value	Form	
Calcium sulfate (CAS 7778-18-9)	PEL	5 mg/m3	Respirable fraction.	
Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS 13397-24-5)	PEL	15 mg/m3 5 mg/m3	Total dust. Respirable fraction.	
•		15 mg/m3	Total dust.	
US. OSHA Table Z-3 (29 CF Components	R 1910.1000) Type	Value	Form	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.	
		2.4 mppcf	Respirable.	
US. ACGIH Threshold Limi Components	t Values Type	Value	Form	
Calcium sulfate (CAS	TWA	10 mg/m3	Inhalable fraction.	
7778-18-9) Calcium sulfate dihydrate (alternative CAS 10101-41-4) (CAS	TWA	10 mg/m3	Inhalable fraction.	
13397-24-5) Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.	
US. NIOSH: Pocket Guide t	o Chemical Hazards Type	Value	Form	
Calcium sulfate (CAS	TWA	5 mg/m3	Respirable.	
7778-18-9)		<u>-</u>		
		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	
Crystalline silica (Quartz) (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.	
ogical limit values	No biological exposure limits noted for the ingredient(s).			
ropriate engineering trols	Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.			
vidual protection measures Eye/face protection	, such as personal protective equipment Wear approved safety goggles.			
Skin protection Hand protection	It is a good industrial hygiene practice to minimic contact use suitable protective gloves.	ze skin contact. For p	prolonged or repeated ski	
Skin protection				

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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. 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 respirator 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.

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.
Form Powder.

Color White to off-white.

Odor Low to no odor.

Odor threshold Not applicable.

pH 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 explosive 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 Solubility(ies)

Solubility (water) 0.15 - 0.4 g/100 g (H2O)

Partition coefficient

Not applicable.

2.96 (H2O=1)

(n-octanol/water)

Auto-ignition temperatureNot applicable.Decomposition temperature2642 °F (1450 °C)ViscosityNot applicable.

Other information

Bulk density 55 - 70 lb/ft³
Particle size Varies.
VOC 0 %

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

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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.

Hazardous decomposition

products

Calcium oxides, carbon dioxide, and carbon monoxide.

11. Toxicological information

Information on likely routes of exposure

Inhalation of dusts may cause respiratory irritation. Prolonged and repeated exposure to airborne Inhalation

respirable crystalline silica can cause silicosis and/or lung cancer.

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

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.

Information on toxicological effects

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

Components **Species Test Results**

Calcium sulfate (CAS 7778-18-9)

Acute

Inhalation

LC50 Rat > 3.26 mg/l, 4 Hours

Oral

LD50 Rat > 1581 mg/kg

Not a skin irritant. Skin corrosion/irritation

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.

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

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^{*} Estimates for product may be based on additional component data not shown.

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.

Mobility in soil No data available.

Other adverse effects None expected.

13. Disposal considerations

Disposal instructionsDispose in accordance with 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 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable. This product is a solid. Therefore, bulk transport is governed by IMSBC 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.

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

lung effects

immune system effects

kidney effects

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

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SARA 311/312 Hazardous

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

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

Yes

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

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

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

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

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

International Inventories

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

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

Yes

*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 26-May-2015

Revision date 19-December-2017

Version # 02

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

USG Anhydrite Gypsum SDS US

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.

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