

Safety Data Sheet Expandable Graphite

1. Identification

Product identifier BariteWorld.com / Division Of Rockleigh Industries Inc.

Recommended use Fire retardant material.

Recommended Workers (and your customers or users in the case of resale) should be informed of the **restrictions** potential presence of respirable dust and respirable crystalline silica as well as their

potential hazards. Appropriate training in the proper use and handling of this material

should be provided as required under applicable regulations.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier BariteWorld.com / Division Of Rockleigh Industries Inc.

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Contact person Product Responsibility Manager +1 917-825-3806

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number

2. Hazards 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 contents/container in accordance with local/regional/national/international

regulations.

Hazard(s) not otherwise None known.

classified (HNOC)

Supplemental

None.

Information

3. Composition/Information on Ingredients

Common Name	Chemical Name	CAS No	Wt.%
Acid Treated Graphite	Hydrogen sulphate, compound with graphite	12777-87-6	≥86
Quartz	Silicon Dioxide	14808-60-7	<7

4. First-Aid Measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. **Eye contact** Do not rub eyes. Rinse with water. Get medical attention if irritation develops and

persists.

IngestionRinse mouth. Get medical attention if symptoms occur.Most importantDusts may irritate the respiratory tract, skin and eyes.

symptoms/effects, acute and delayed

Indication of immediate Provide general supportive measures and treat symptomatically. Keep victim under

special treatment medical attention and observation. Symptoms may be delayed.

needed

General information IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel

are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-Fighting Measures

Suitable extinguishing Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

media

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

media

Specific hazards arising During fire, gases hazardous to health may be formed.

from the chemical

Special protective Self-contained breathing apparatus and full protective clothing must be worn in case of

equipment and fire.

precautions for

firefighters



Fire fighting Use water spray to cool unopened containers.

equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved

materials.

procedures

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental Release Measures

Personal precautions, Keep unnecessary personnel away. Keep people away from and upwind of spill/leak.

protective equipment Wear appropriate protective equipment and clothing during clean-up. Use a

and emergency NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section

8 of the SDS.

Methods and materials Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner

For containment and equipped with HEPA filter. The product is immiscible with water and will spread on the

cleaning up water surface. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into

waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for

disposal. For waste disposal, see section 13 of the SDS.

Environmental

precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Precautions for Obtain special instructions before use. Do not handle until all safety precautions have

safe handling been read and understood. Minimize dust generation and accumulation. Provide

appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear

appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe Store locked up. Store in original tightly closed container. Store in a well-ventilated

storage, including place. Store away from incompatible materials (see Section 10 of the SDS).

any incompatibilities

8. Exposure Controls/Personal Protection

Occupational exposure limits

U.S. - OSHA

Components	Туре	Value	Form
Sulphuric acid, compound with graphite	PEL	5 mg/m ³	Respirable fraction.



(CAS 12777-87-6)				
US. OSHA Table Z-3 (29 CFR 1910.1000)				
Components	Type	Value	Form	
Quartz (CAS 14808-60-7)	TWA	0.3 mg/m ³	Total dust.	
		0.1 mg/m ³	Respirable.	
		2.4 mppcf	Respirable.	

ACGIH

Components	Туре	Value	Form
Sulphuric acid, compound with graphite	TWA	3 mg/m ³	Respirable particles.
(CAS 12777-87-6)		10 mg/m ³	Inhalable particles.

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.025 mg/m ³	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	Form
Quartz (CAS 14808-60-7)	TWA	0.05 mg/m ³	Respirable dust.

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

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline

silica should be monitored and controlled.

Appropriate Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to

keep exposures below the recommended exposure limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

Skin protection

Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by

the glove supplier.

Skin protection

Other Use of an impervious apron is recommended.

Respiratory protection Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at



levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge,

full facepiece, dust and mist filter.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene Observe any medical surveillance requirements. Always observe good personal hygiene

considerations measures, such as washing after handling the material and before eating, drinking,

and/or smoking. Routinely wash work clothing and protective equipment to remove

contaminants.

9. Physical and Chemical Properties

Appearance Black solid.

Physical state Solid.

Form Solid (flake).

Color Black.

Odor Slight acidic.
Odor threshold Not available.
pH Not applicable.

Melting point/freezing > 5000 °F (> 2760 °C) / Not applicable.

point

Initial boiling point and Not applicable.

boiling range

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability Not available.

(solid, gas)

Upper/lower flammability or explosive limits

Flammability limit Not applicable.

- lower (%)

Flammability limit Not applicable.

- upper (%)

Explosive limit Not available.

- lower (%)

Explosive limit Not available.

- upper (%)

Vapor pressure Not applicable.
Vapor density Not applicable.
Relative density No data available.

Solubility(ies)

Solubility (water) Insoluble in water.

Partition coefficient Not available.



(n-octanol/water)

Auto-ignition Not applicable.

temperature

Decomposition Not applicable.

temperature

Viscosity Not available.

Other information

Bulk density 0.4 - 1 g/ccExplosive properties Not explosive.Oxidizing properties Not oxidizing.

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 No dangerous reaction known under conditions of normal use.

reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Powerful oxidizers. Chlorine.

Hazardous No hazardous decomposition products are known.

decomposition

products

11. Toxicological Information

Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to Dusts may irritate the respiratory tract, skin and eyes.

the physical, chemical and toxicological

characteristics

Information on toxicological effects

Acute toxicity Not available.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization



Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1%

are mutagenic or genotoxic.

Carcinogenicity In 1997, IARC (the International Agency for Research on Cancer) concluded that

crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

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

NTP Report on Carcinogens

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

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ Not classified.

toxicity - single exposure

Specific target organ Not classified.

toxicity - repeated

exposure

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

12. Ecological information

Ecotoxicity The product is 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.

Persistence and

No data is available on the degradability of this product.

degradability

Bioaccumulative No data available.

potential

Mobility in soil The product is insoluble in water.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone

creation potential, endocrine disruption, global warming potential) are expected from

this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Dispose of contents/container in accordance with local/regional/national/international

regulations.

Local disposal regulations Dispose in accordance with all applicable 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 / Dispose of in accordance with local regulations. Empty containers or liners may retain

Unused products some product residues. This material and its container must be disposed of in a safe

manner (see: Disposal instructions).

Contaminated Since emptied containers may retain product residue, follow label warnings even after

packaging container is emptied. Empty containers should be taken to an approved waste handling

site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk Not applicable.

according to 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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

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

Quartz (CAS 14808-60-7)

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

Quartz (CAS 14808-60-7)

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

Quartz (CAS 14808-60-7)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

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

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Quartz (CAS 14808-60-7)

International Inventories

Country(s) or region Inventory name

On inventory (yes/no)*



Australia	Australian Inventory of Chemical Substances (AICS)	No	
Canada	Domestic Substances List (DSL)	No	
Canada	Non-Domestic Substances List (NDSL)	Yes	
China	Inventory of Existing Chemical Substances in China (IECSC)	No	
Europe	European Inventory of Existing Commercial Chemical	Yes	
	Substances (EINECS)		
Europe	European List of Notified Chemical Substances (ELINCS)	Yes	
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	No	
	(PICCS)		
United States &	Toxic Substances Control Act (TSCA) Inventory	Yes	
Puerto Rico			

^{*}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 3-May-2017

Revision date -

Version # 01



NFPA ratings

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