# **HALLIBURTON**

# SAFETY DATA SHEET

# **QUIK-BORE**

Revision Date: 02-Mar-2023 Revision Number: 14

1. Identification

Product identifier

Product Name QUIK-BORE

Other means of identification

**Hazardous Material Number:** HM007492

Recommended use of the chemical and restrictions on use

Recommended Use Additive

Supplier details

Halliburton Energy Services Halliburton Energy Services Halliburton Energy Services

Av. Amazonas N37-29 y Villalengua Edif., Carrera 7 No. 71-52, Floor 7, Torre B, Avenida Principal De Santa Rita Sector

Quito, Ecuador Bogotá, Colombia Punta

Santa Rita, WES, Venezuela

For further information, please contact:

E-mail Address fdunexchem@halliburton.com

Emergency Phone number

US/Canada: +1-760-476-3962 Peru: 5116 1867 77

Argentina: +54 11 5219 8871 Chile: +56 44 8905208 Colombia: +57 1 344 1317 Panama: +50 78 387596

Global Incident Response Access Code: 334305

Contract Number: 14012

## 2. Hazards Identification

Classification of the hazardous chemical

Glacomodici el tilo hazaracac chemical	
Carcinogenicity	Category 1B - H350
Specific Target Organ Toxicity - (Repeated Exposure)	Category 2 - H373

## Label Elements

#### **Hazard Pictograms**



Signal Word: Danger

Hazard Statements H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements** 

**Prevention** P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P314 - Get medical attention/advice if you feel unwell

Storage P405 - Store locked up

**Disposal** P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

**Contains** 

Response

Substances CAS Number Crystalline silica, quartz 14808-60-7

#### Other hazards which do not result in classification

None known

## 3. Composition/Information on Ingredients

Product Classification: Substance

Substances	CAS Number	PERCENT (w/w)	GHS Classification
Crystalline silica, quartz	14808-60-7	1 - 5%	Carc. 1A (H350)
			STOT RE 1 (H372)

The exact percentage (concentration) of the composition has been withheld as proprietary.

## 4. First Aid Measures

Description of first aid measures

**Inhalation** If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

**Eyes** In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention if irritation persists.

**Skin** Wash with soap and water. Get medical attention if irritation persists. **Ingestion** Under normal conditions, first aid procedures are not required.

# Most important symptoms and effects, both acute and delayed

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

## Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

# 5. Fire-fighting measures

Suitable extinguishing media
Suitable Extinguishing Media
All standard fire fighting media

Extinguishing media which must not be used for safety reasons

None known.

#### Physicochemical hazards arising from the chemical

Special exposure hazards in a fire

Not applicable

#### Special protective equipment and precautions for fire fighters

Special protective equipment for firefighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

## 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Use appropriate protective equipment. Avoid creating and breathing dust.

See Section 8 for additional information.

### **Environmental precautions**

Prevent from entering sewers, waterways, or low areas.

#### Methods and material for containment and cleaning up

Collect using dustless method and hold for appropriate disposal. Consider possible toxic or fire hazards associated with contaminating substances and use appropriate methods for collection, storage and disposal.

## 7. Handling and storage

#### Precautions for safe handling

This product contains quartz, cristobalite, and/or tridymite which may become airborne without a visible cloud. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH certified, European Standard En 149, or equivalent respirator when using this product. Material is slippery when wet.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container. Product has a shelf life of 24 months.

# 8. Exposure Controls/Personal Protection

#### Control parameters

**Exposure Limits** 

Substances	CAS Number	Venzuela	Colombia	Argentina
Crystalline silica, quartz	14808-60-7	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.025 mg/m <sup>3</sup>	TWA: 0.05 mg/m <sup>3</sup>

Appropriate engineering controls

Engineering Controls

Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

#### Individual protection measures, such as personal protective equipment

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures, the

selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this

product.

Respiratory Protection Not normally needed. But if significant exposures are possible then the following respirator

is recommended:

Dust/mist respirator. (N95, P2/P3)

Hand Protection Normal work gloves.

**Skin Protection** Wear clothing appropriate for the work environment. Dusty clothing should be laundered

before reuse. Use precautionary measures to avoid creating dust when removing or

laundering clothing.

**Eye Protection** Wear safety glasses or goggles to protect against exposure.

Other Precautions None known.

Environmental Exposure Controls No information available

# 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State: Powder Color Gray

Odor: Mild earthy Odor Threshold: No information available

Property Values Remarks/ - Method

<del>pH:</del> 8-10

Freezing Point / Range
Melting Point / Range
No data available
Pour Point / Range
No data available
Boiling Point / Range
No data available
No data available
Flash Point
No data available
Evaporation rate
No data available
Vapor Pressure
No data available

Specific Gravity 2.6

**Water Solubility** Insoluble in water Solubility in other solvents No data available No data available Partition coefficient: n-octanol/water **Autoignition Temperature** No data available **Decomposition Temperature** No data available **Viscosity** No data available **Explosive Properties** No information available **Oxidizing Properties** No information available

Other information

**Vapor Density** 

VOC Content (%) No data available

## 10. Stability and Reactivity

#### Reactivity

Not expected to be reactive.

#### Chemical stability

Stable

### Possibility of hazardous reactions

Will Not Occur

#### Conditions to avoid

None anticipated

#### Incompatible materials

Hydrofluoric acid.

## Hazardous decomposition products

Amorphous silica may transform at elevated temperatures to tridymite (870 C) or cristobalite (1470 C).

## 11. Toxicological Information

#### Information on possible routes of exposure

**Principle Route of Exposure** Eye or skin contact, inhalation.

#### **Most Important Symptoms/Effects**

No data available

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer. Crystalline silica has also been associated with scleroderma and kidney disease.

### Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Crystalline silica, quartz	14808-60-7	> 15000 mg/kg (human)	No data available	No data available

#### Immediate, delayed and chronic health effects from exposure

Inhalation

Inhaled crystalline silica in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (IARC, Group 1). There is sufficient evidence in experimental animals for the carcinogenicity of tridymite (IARC, Group 2A).

Breathing silica dust may cause irritation of the nose, throat, and respiratory passages. Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may also have serious chronic health effects (See "Chronic Effects/Carcinogenicity" subsection below).

Eye Contact Skin Contact Ingestion May cause mechanical irritation to eye.

None known. None known.

### **Chronic Effects/Carcinogenicity**

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The International Agency for Research on Cancer (IARC) has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources can cause lung cancer in humans (Group 1 - carcinogenic to humans) and has determined that there is sufficient evidence in experimental animals for the carcinogenicity of tridymite (Group 2A - possible carcinogen to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997) in conjunction with the use of these minerals. The National Toxicology Program classifies respirable crystalline silica as "Known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).

There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by scarring of the lungs, skin, and other internal organs) and kidney disease.

This product contains Wyoming bentonite or other sorptive clays. Crystalline silica forms found in this particular clay are limited to quartz. Extreme temperatures that can generate cristobalite or tridymite are not expected to occur under realistic conditions. In addition, all quartz found in sorptive clays are considered "occluded", i.e., strongly coated with an amorphous silica surface (Wendlandt et al., 2007; Hochella and Muryama, 2010; SMI, 2014). Occluded quartz has been experimentally-determined to be relatively non-toxic compared to unoccluded quartz (Geh et al., 2006; Creutzenberg et al., 2008). A lack of health effects found in several studies examining occupational exposure to sorptive clays also suggest that chronic inhalation of sorptive clays is not expected to result in silicosis or cancer (Waxweiler et al., 1988; ACGIH, 1991; USEPA, 1996; IARC, 2005). In light of these findings OSHA has recently exempted Wyoming bentonite and other sorptive clays from the crystalline silica PEL in §1910.1053(a)(1)(iii).

Substances	CAS Number	Skin corrosion/irritation
Crystalline silica, quartz	14808-60-7	Non-irritating to the skin

Substances	CAS Number	Serious eye damage/irritation
Crystalline silica, quartz	14808-60-7	Non-irritating to the eye No information available

Ometalline all an extension 14 4000 00 7. No left more flance shall be	Substances	CAS Number	Skin Sensitization
Crystalline silica, quartz   14808-60-7   No information available.	Crystalline silica, quartz	14808-60-7	

Substances	CAS Number	Respiratory Sensitization
Crystalline silica, quartz	14808-60-7	No information available

Substances	CAS Number	Mutagenic Effects
Crystalline silica, quartz	14808-60-7	Not regarded as mutagenic.

Substances	CAS Number	Carcinogenic Effects
Crystalline silica, quartz		Contains crystalline silica which may cause silicosis, a delayed and progressive lung disease. The IARC and NTP have determined there is sufficient evidence in humans of the carcinogenicity of
		crystalline silica with repeated respiratory exposure.

Substances	CAS Number	Reproductive toxicity
Crystalline silica, quartz	14808-60-7	No information available

Substances	CAS Number	STOT - single exposure
Crystalline silica, quartz	14808-60-7	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	mber STOT - repeated exposure	
Crystalline silica, quartz	14808-60-7	Causes damage to organs through prolonged or repeated exposure if inhaled: (Lungs)	

Substances	CAS Number	Aspiration hazard
Crystalline silica, quartz	14808-60-7	No information available

# 12. Ecological Information

#### **Ecotoxicity**

## 12.1. Toxicity

Substances	<b>CAS Number</b>	Toxicity to Algae	Toxicity to Fish	Toxicity to	Toxicity to Invertebrates
				Microorganisms	
Crystalline silica, quartz	14808-60-7	EC50(72 h)=440 mg/L (Pseudokirchneriella subcapitata)	LL0(96 h)=10000 mg/L (Danio rerio)	No information available	LL50(24 h)>10000 mg/L (Daphnia magna)

## Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Crystalline silica, quartz	14808-60-7	The methods for determining biodegradability are
		not applicable to inorganic substances.

## Bioaccumulative potential

Substances	CAS Number	Bioaccumulation
Crystalline silica, quartz	14808-60-7	No information available

## Mobility in soil

Substances	CAS Number	Mobility
Crystalline silica, quartz	14808-60-7	No information available

# Other adverse effects

## **Endocrine Disruptor Information**

This product does not contain any known or suspected endocrine disruptors

# 13. Disposal Considerations

## Disposal methods

Disposal methods

**Contaminated Packaging** 

Bury in a licensed landfill according to federal, state, and local regulations.

Follow all applicable national or local regulations.

# 14. Transport Information

Transportation Information

UN Number
UN proper shipping name:
Not restricted
Not restricted
Not applicable
Packing Group:
Not applicable
Not applicable
Not applicable

IMDG/IMO

UN Number
UN proper shipping name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Not applicable
Not applicable
Not applicable

IATA/ICAO

UN Number
UN proper shipping name:
Transport Hazard Class(es):
Packing Group:
Not applicable
Environmental Hazards:
Not applicable
Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Special precautions for user

None

## 15. Regulatory Information

International Agreements

Montreal Protocol - Ozone Depleting Substances:Does not apply.Stockholm Convention - Persistent Organic Pollutants:Does not apply.Rotterdam Convention - Prior Informed Consent:Does not apply.Basel Convention - Hazardous Waste:Does not apply.

NFPA Ratings: Health 0, Flammability 0, Reactivity 0
HMIS Ratings: Health 0\*, Flammability 0, Reactivity 0

# 16. Other Information

Revision Date: 02-Mar-2023

Revision Note SDS sections updated:

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Key literature references and sources for data

www.ChemADVISOR.com/

NZ CCID

Key or legend to abbreviations and acronyms used in the safety data sheet

bw – body weight

CAS - Chemical Abstracts Service

EC10 - Effective Concentration 10%

EC50 - Effective Concentration 50%

EEC - European Economic Community

ErC50 – Effective Concentration growth rate 50%

IBC Code - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL0 - Lethal Loading 0%

LL50 - Lethal Loading 50%

MARPOL – International Convention for the Prevention of Pollution from Ships

mg/kg - milligram/kilogram

mg/L - milligram/liter

NIOSH - National Institute for Occupational Safety and Health

NOEC - No Observed Effect Concentration

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PBT - Persistent Bioaccumulative and Toxic

PC - Chemical Product category

PEL - Permissible Exposure Limit

ppm - parts per million

PROC - Process category

STEL - Short Term Exposure Limit

h - hour

d - day

#### **Disclaimer Statement**

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**End of Safety Data Sheet**