

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name Britesorb TR

Synthetic amorphous silica and Polyvinylpyrrolidone

Use Beverage processing.

Manufacturer/Supplier: PQ Corporation

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2. HAZARDS IDENTIFICATION

EC Classification Not classified as dangerous for supply/use.

Dust clouds are flammable and may be explosive. Exposure to any kind of dust is potentially harmful.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.	EINECS	EC Classification
			No.	
Synthetic amorphous silica	> 62 %	112926-00-8	2315454	Occupational Exposure
				Limits
Water	< 10 %	7732-18-5	2317912	
Polyvinylpyrrolidone	< 28 %	9003-39-8		Occupational Exposure
				Limits

4. FIRST AID MEASURES

Eye Contact If substance has got into the eyes, immediately wash out with plenty

of water. Obtain immediate medical attention.

Skin Contact Wash accidental spillage from skin. Wash skin with soap and water.

If symptoms develop, obtain medical attention.

Ingestion Do not induce vomiting. Wash out mouth with water. If large amount

swallowed or symptoms develop obtain medical attention.

Inhalation Remove patient from exposure, keep warm and at rest. If symptoms

develop, obtain medical attention.

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FIRE-FIGHTING MEASURES

General: Ignites in contact with flame and supports combustion until the

polymer has burned off.

Be aware of the possibility of re-ignition.

Cool the smouldering material with water spray to minimise the

possibility of re-ignition.

Extinguishing Media Unsuitable Extinguishing

Media

Fire Fighting Protective

Equipment

Extinguish with waterspray, foam or dry chemical. Carbon dioxide is unsuitable (creates dust).

A self contained breathing apparatus should be worn.

ACCIDENTAL RELEASE MEASURES 6.

Wear suitable protective clothing. Wear eye/face protection. **Personal Protection**

An approved dust mask should be worn if dust is generated during

handling.

See Also Section 8.

General: Contain spillages. Dampening with water can reduce dust. Sweep

> or preferably vacuum up and collect in suitable containers for recovery or disposal. Finally flush area with plenty of water.

HANDLING AND STORAGE 7.

Handling Avoid generation of dust.

See Also Section 8.

A considerable static electrical charge can be built up during mechanical handling which may become a hazard in atmospheres containing flammable vapours. Advice on the control of static is

given in British Standard BS 5958.

When handling in bulk, the possibility of dust explosion should be considered. If the risk is significant, mechanical handling equipment

must be earthed and provided with explosion venting.

Storage Keep container tightly closed and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Synthetic amorphous silica Silica amorphous, total inhalable dust: UK EH40: WEL 6 mg/m3 8h

Silica amorphous, respirable dust: UK EH40: WEL 2.4 mg/m3 8h

TWA.

Silica, Amorphous - Precipitated silica and silica gel: ACGIH: TLV

withdrawn 2006

Silica amorphous - Precipitated silica: OSHA: PEL 6mg/m3 8h TWA

Dust, total inhalable: UK EH40: WEL 10mg/m3 8h TWA. Polyvinylpyrrolidone Dust, respirable: UK EH40: WEL 4mg/m3 8h TWA.

Particulates not otherwise classified, inhalable: ACGIH: TLV

10mg/m3 8h TWA.

Particulates not otherwise classified, respirable: ACGIH: TLV

3mg/m3 8h TWA.

Engineering methods to prevent or control exposure are preferred. General:

Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process

conditions.

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Respirators Avoid inhalation of dusts. Wear suitable respiratory protective

equipment if working in confined spaces with inadequate ventilation or where there is any risk of the exposure limits being exceeded. Advice on respiratory protective equipment is given in the HSE

(Health and Safety Executive) publication HS(G)53.

Skin Contact Wear suitable protective clothing and gloves. Plastic or rubber

gloves. For example EN374-3. Wear suitable overalls.

Eye Protection Safety spectacles. Goggles.

Other Wear protective equipment to comply with good occupational

hygiene practice.

Do not eat, drink or smoke at the work place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Powder.
Colour White.
Odour Odourless.

pH (Value) 3 - 10 at 5% w/w in water.

Auto Ignition Temperature (°C) Above 125 **Explosive Properties** St class 1.

In powder form this product contains particles which can form a Group A dust capable of being ignited and propagating flame.

Minimum Ignition Temperature (°C): 500 Minimum Ignition Energy (mJ): 1000 Maximum explosion pressure (bar): 6.9 Maximum rate of pressure rise (bar/s): 342

Solubility (Water) Insoluble.

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Hazardous Reactions Take precautionary measures against static discharges.

Keep at temperature not exceeding (°C): 75 Avoid contact with: Strong oxidising agents.

Hazardous Decomposition

Product(s)

Combustion products: oxides of nitrogen, oxides of carbon

11. TOXICOLOGICAL INFORMATION

Acute Toxicity All components have a low order of acute toxicity.

The lethal dose for humans for synthetic amorphous silica is

estimated at over 15000 mg/kg.

Synthetic amorphous silica is a permitted food additive in the UK,

US and many other countries.

Inhalation Synthetic amorphous silica has little adverse effect on lungs and

does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However, existing medical conditions (eg. asthma, bronchitis) may be aggravated by exposure to dust. Effects of dust may be greater, and occur at lower levels of

exposure in smokers compared to non-smokers. Dust may cause discomfort and mild irritation.

Skin Contact Repeated and/or prolonged skin contact may cause slight irritation.

Repeated and/or prolonged contact may cause dermatitis.

Carcinogenicity Information IARC assessment: Amorphous silica is not classifiable as to its

carcinogenicity to humans (Group 3).

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Eye Contact



12. ECOLOGICAL INFORMATION

Ecotoxicity The following information is based on the principal component:

Synthetic amorphous silica is virtually inert and has no known

adverse effect on the environment.

13. DISPOSAL CONSIDERATIONS

Recommended: Disposal should be in accordance with local, state or national

legislation.

14. TRANSPORT INFORMATION

UN transport information contained in this section is applicable to packages for transport exceeding 3 cubic metres.

UN No. 3088 UN Pack. Group

Road/Rail

Proper Shipping Name SELF-HEATING SOLID, ORGANIC, N.O.S.

ADR/RID Class 4.2 Hazards Identification 40

AIR

ICAO/IATA Refer to the IATA Transport of Dangerous Goods Regulations

(latest edition) for the specific IATA proper Shipping Name.

15. REGULATORY INFORMATION

EC Classification Not classified as dangerous for supply/use.

Safety Phrases S33: Take precautionary measures against static discharges.

Handle in accordance with good industrial hygiene and safety

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practices.

Avoid inhalation of dusts.

TSCA Inventory Status: Mixture - all components included. DSL/NDSL Inventory Status: Mixture - all components included.

16. OTHER INFORMATION

The following sections contain revisions or new statements:

MSDS first issued 06/03/2001 MSDS data revised 01/2010

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