

MATERIAL SAFETY DATA SHEET

1.0 IDENTIFICATION

Product Name : **BC Powder (all grades based on Sodium Bicarbonate)**
Use : Fire extinguishing powder
Supplier : Britannia Fire Limited
Ashwellthorpe Industrial Estate
Ashwellthorpe
Norwich, NR16 1ER
United Kingdom
Telephone : +44 (0) 1508 488416
Fax : +44 (0) 1508 481753
E mail : sales@britannia-fire.co.uk

2.0 HAZARDS IDENTIFICATION

Hazards identification : Not regarded as a health or environmental hazard under current legislation. No known acute health effects when used as intended.

3.0 COMPOSITION/INFORMATION OF INGREDIENTS

There are no hazardous components based upon current legislation. Please see section 8 for respirable Dust information.

4.0 FIRST AID MEASURES

Inhalation : Remove casualty from exposure. Provide rest, warmth and fresh air.
Ingestion : Rinse mouth with water and give plenty of water to drink. Do not induce vomiting.
Skin contact : Wash the skin immediately with soap and water.
Eye contact : Promptly wash eyes with plenty of water while lifting eye lids. Continue to rinse for at least 15 minutes.

If symptoms persist seek medical advice and treat symptomatically.

5.0 FIRE FIGHTING MEASURES

Not applicable as this product is a fire extinguishing medium.

6.0 ACCIDENTAL RELEASE

Do not allow to enter public sewers and watercourses. If contamination of drainage systems or watercourses is unavoidable, immediately inform appropriate authorities.

Shovel into dry containers. Cover and move the containers. Vacuum cleaning is recommended to minimise dust formation. Flush the area with water.

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7.0 HANDLING AND STORAGE

Handling	:	When handling this product use suitable containment methods to avoid generation of dust and local exhaust ventilation to limit personal exposure.
Storage	:	Keep cool and dry in the absence of vibration. Maintain good housekeeping practice.

8.0 EXPOSURE CONTROL/PERSONAL PROTECTION

Ingredient comments	:	Product contains respirable Silica which has a MEL of 0.3mg/m ³ (8 hour TWA).
Personal protection	:	Use of gloves, goggles and protective clothing is recommended.
Ventilation	:	Provide sufficient ventilation for operations causing dust formation.
Respirators	:	Respiratory protection (P1) must be used if air concentration exceeds acceptable level.
Protective gloves	:	No specific hand protection noted but gloves may still be advisable. Use protective gloves made of impermeable material.
Eye protection	:	Wear approved chemical safety goggles where eye exposure is reasonably probable.
Hygienic work practices	:	Wash at end of each work shift and before eating, smoking and using toilet.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Fine powder.
Odour	:	Odourless.
Ph	:	7.5 to 8.5 of 5% solution in water.
Density	:	Settled apparent density 1100 – 1600 kg/m ³
Solubility	:	Soluble in water but silicon additive delays dissolution.
Flammability	:	Non flammable
Decomposition	:	at 270°C in flame zone.

10.0 STABILITY AND REACTIVITY

Stability	:	Normally stable.
Conditions to avoid	:	Avoid contact with acids. Avoid contact with water. Avoid contact with strong oxidisers.

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11.0 TOXICOLOGICAL INFORMATION

Toxic dose – LD 50	:	Sodium bicarbonate: 4220 mg/kg (oral rat). Calcium carbonate : 6450 mg/kg (oral rat).
Ingestion	:	May cause discomfort if swallowed.
Skin contact	:	Prolonged or repeated exposure may cause irritation,
Inhalation	:	Dust may irritate respiratory systems or lungs.
Eye contact	:	Particles in the eyes may cause irritation and smarting.

12.0 ECOLOGICAL INFORMATION

Mobility	:	Soluble in water therefore it could increase the pH if washed into watercourses.
Bioaccumulation	:	Low potential for bioaccumulation.
Degradability	:	Not readily biodegradable.
Acute fish toxicity	:	Not toxic at limit of water solubility.

In the event of large spillage, advise the appropriate authority.

13.0 DISPOSAL

Disposal methods	:	Powder or contaminated packaging to be collected, sealed tightly in bags and disposed on approved landfills. Do not dispose with acids.
Waste	:	European Waste Catalogue 160304

14.0 TRANSPORT INFORMATION

Not classified as hazardous for transport.

When transported in a stored pressure or cartridge type fire extinguisher, the fire extinguisher is considered a class 2.2 hazard. The proper shipping name shall be FIRE EXTINGUISHER and the number is UN 1044

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15.0 REGULATORY INFORMATION

Risk phrases	:	Not classified.
Safety phrases	:	S-22 Do not breathe dust.
UK regulatory references	:	Classification, Packaging and Labelling Regulations 1984. The Control of Substances Hazardous to Health regulations 1988. Chemicals (Hazard Information & Packaging) Regulations 1993.
EU directives	:	Dangerous Preparations Directive 88\379. Systems of specific information Relating to Dangerous Preparations. 91\155. Safety Data Sheet Directive 2001/581.
Statutory instruments	:	Chemical (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.
Approved code of practice	:	Safety data Sheets for Substances and Preparations L62. Classification and Labelling of substances and Preparations Dangerous for Supply.
Guidance notes	:	Occupational Exposure Limits EH40. CHIP for everyone HSG(108).

16.0 OTHER INFORMATION

User notes	:	N/A.
Information sources	:	Croner's: Substances Hazardous to Health. Croner's: Emergency First Aid Guide. Croner's: Emergency Spillage Guide. Croner's: Dangerous Substances.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. Information source (data sheet) original chemical supplier Kerr Fire Fighting Chemicals. The information given is designed only as guidance for safe handling, uses processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.