

MATERIAL SAFETY DATA SHEET

ABE POWDERS (ALL GRADES)

1. Chemical product and company identification

Trade name: ABE POWDERS (ALL GRADES)
Product Application: Fire fighting powder for use on Class A, B and E fires
Manufacturer/Supplier: Kerr Fire Fighting Chemicals Ashcroft Road Knowsley Ind. Park
Kirkby Liverpool L33 7TS ENGLAND E-mail : kerr.sales@kerr-firefighting.com
Tel: (44) 151 548 6424 Fax: (44) 151 548 7263

2. Hazards identification

This preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Physical hazards: Not classified as a physical hazard.
Health hazards: Prolonged exposure may cause chronic effects.
Environmental hazards: Not classified as an environmental hazard.
Specific hazards: May cause irritation of nose, throat and mucous membranes.
Main symptoms : Irritation of nose and throat. Irritation of eyes and mucous membranes.

3. Composition/information on ingredients

Composition comments: The full text for all R-phrases is displayed in section 16. Please see section 8 for respirable dust information.

4. First aid measures

Inhalation: Dust irritates the respiratory system and may cause coughing and difficulties in breathing. If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Ingestion: Rinse mouth thoroughly with water and give large amounts of water to people not unconscious. Get medical attention if symptoms occur.
Skin contact: Wash the area immediately with soap and water. Get medical attention if irritation develops or persists.
Eye contact: Do not rub eyes. Flush thoroughly with water. If irritation persists, get medical attention.

5. Fire fighting measures

No specific measures required as this product is a fire extinguishing medium. If product containers are involved in fire then suitable extinguishing media should be applied.

6. Accidental release measures

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 control dust formation. Flush the area with water. For waste disposal, see section 13.

Version 6 Date 11/06/09

MATERIAL SAFETY DATA SHEET

ABE POWDERS (ALL GRADES)

7. 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, store away from sodium hypochlorite (bleach).

8. Exposure controls and personal protection

Occupational exposure limits (UK)

Components	Type	Value	Form
Mica (12001-26-2)	TWA	10 mg/m	Inhalable
		0.8 mg/m ³	Respirable
Silicon dioxide (7631-86-9)	TWA	6 mg/m ³	Inhalable dust
		2.4 mg/m ³	Respirable dust.

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 be still advisable. Use protective gloves made of impermeable material.

Eye protection : Wear approved chemical safety goggles where eye exposure is reasonably probable.

Environmental exposure controls: Contain spills and prevent releases and observe national regulations on emissions.

Hygienic work practices : Wash at end of each work shift and before eating, smoking and using toilet.

9. Physical and chemical properties

Appearance: Fine powder.

Physical state : Solid.

Odour: Odourless.

pH 4.5 of 5% solution in water.

Density/Specific Gravity: Settled apparent density 1000 - 1300 kg/m³ .

Solubility: Soluble in water (0.227 kg/kg), but silicon additive delays dissolution.

Flammability: Non-flammable.

Decomposition: At 190°C in flame zone.

Version 6 Date 11/06/09

MATERIAL SAFETY DATA SHEET

ABE POWDERS (ALL GRADES)

10. Stability and reactivity

Stability: Stable under normal temperature conditions.
Conditions to avoid : Avoid contact with alkalis. Avoid contact with water. Avoid contact with strong oxidisers.
Hazardous decomposition: Ammonia. Sulphur oxides. Oxides of phosphorous.

11. Toxicological properties

Toxic dose - LD 50: Ammonium sulphate: >3000 mg/kg (oral rat).
Acute toxicity: May cause eye, skin and respiratory tract irritation.
Routes of exposure: Eye contact. Inhalation. Skin contact.
Chronic toxicity: Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Prolonged and repeated over exposure to dust can lead to pneumoconiosis. Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure to this product.
Sensitisation: No test data available for this product.

12. Ecological information

Ecotoxicological data

Components

Test results

Ammonium sulphate (7783-20-2)	EC50 Water flea (Ceriodaphnia dubia): 52-67 mg/1 48 Hours LC50 Rainbow trout (Oncorhynchus mykiss): 35.2-43.8 mg/1 96 hours.
Mobility:	Soluble in water therefore it could lower the pH if washed into watercourses.
Bioaccumulation:	Low potential for bioaccumulation.
Degradability:	Not readily biodegradable. Note : Ammonium salts and phosphates act as plant nutrients.
Ecotoxicity :	The product contains a substance which causes risk of hazardous effects to the environment.

13. Disposal considerations

Disposal instructions : Dispose of waste and residues in accordance with local authority requirements.
EU waste codes : **16 05 05**

14. Transport information

ADR Not regulated as dangerous goods.
IATA Not regulated as dangerous goods.
IMDG Not regulated as dangerous goods.

Version 6 Date 11/06/09



strategic safety solutions

MATERIAL SAFETY DATA SHEET

ABE POWDERS (ALL GRADES)

15. Regulatory information

Labelling

S-phrases(s)

S22 Do not breathe dust.

Not classified as dangerous according to directive 1999/45/EC

Regulatory information:

The product does not need to be labelled in accordance with EC directives or respective national laws.

16. Other information

List of relevant R phrases for preparation components

R52/53 Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.



Version 6 Date 11/06/09



ACN 109 361 739 ABN 45 109 361 739
6 Susan Street, HINDMARSH SA. 5007
PO BOX 573, HINDMARSH SA. 5007
Tel: 08 8346 0555 Fax: 08 8346 0555
Email: protection@ceasefire.net.au Web: www.ceasefire.net.au
CSSS MSDS ABE Powder 2012 Version 1.1, Doc 60

