

**TECHNICAL SPECIFICATION SHEET**

**MONNEX**

**BCE DRY POWDER**

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| <b>1/ COMPOSITION</b>                  | A foam compatible fire extinguishing dry powder based on urea/potassium bicarbonate complex which has been treated with flow promoting and moisture repellent additives |
| <b>2/ APPLICATION</b>                  | Ultra high extinguishing efficiency powder suitable for class B, C and E fires. Meets the fire extinguishing requirements of EN 615 and Underwriters Laboratories (USA) |
| <b>3/ APPEARANCE</b>                   | A fine off white free flowing powder with a slight ammonical odour  |
| <b>4/ CHEMICAL NAME &amp; SYNONYMS</b> | Potassium Allophonate or Potassium Carbamate.   |



## Material Safety Data Sheet

### Chemical product and company identification

Trade name: Monnex  
Product Application: Fire extinguishing powder  
Manufacturer: Croda Fire Fighting Chemicals Ltd Ashcroft Road Knowsley  
Ind Park Kirkby Liverpool L33 7TS United Kingdom  
Telephone: + 44 (0) 151 548 6424 Fax: + 44 (0) 151 548 7263

### Composition and ingredient information

Product name	CAS no	EINECS no
Monnex	8068-13-1	
Component name		
Potassium allophosphate	26479-35-6	247-728-7
Potassium bicarbonate	298-14-6	206-059-0

Risk/Safety Phrases  
R36/37/38  
S24/25  
S37/39

### Hazard identification

No known acute health effects

### First aid measures

Inhalation: Move to fresh air  
Skin contact: Wash off with plenty of water  
Eye contact: Irrigate with fresh water for at least ten minutes holding eyelids apart  
Ingestion: Rinse mouth with water and give plenty of water to drink. If other symptoms persist seek medical advice and treat symptomatically.

### Fire fighting measures

No specific measures required as this product is a fire extinguishing medium.

### Accidental release measures

Clear up spillage and transfer to a container for recovery or disposal. Vacuum cleaning is recommended to minimise dust formation.

### 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)



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#### Exposure controls and personal protection

Occupational exposure standards:

United Kingdom OES: 10mg/m<sup>3</sup> total dust: 4mg/m<sup>3</sup> respirable dust  
8-hour time weighted averages. (Ref: EH40/98)

Personal Protection: Wear suitable respiratory protection eg dust mask/respirator to reduce personal exposure to below OES.  
Overalls, gloves and eye protection recommended for regular handling and the normal hygiene measures adopted when using chemicals.

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#### Physical and chemical properties

Appearance: Fine, off-white powder  
Odour: Slightly ammoniacal  
pH: 8-9 of 10% solution in water  
Density: Settled apparent density 950-1100 kg/m<sup>3</sup>; bulk density 600-750kg/m<sup>3</sup>  
Solubility: Soluble in water but hydrophobic additives delay dissolution  
Flammability: Non-flammable  
Decomposition: at 270°C in flame zone

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#### Stability and reactivity

Reacts with acids to liberate carbon dioxide.

If powder becomes damp or hard it is not suitable for fire-fighting purposes.

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#### Toxicological properties

Data on acute toxicity Oral, rat, LD<sub>50</sub>

Monnex >4000mg/kg  
Ingestion: Practically non-harmful  
Skin contact: May cause mild irritation  
Inhalation: Long term inhalation of dust may cause irritation to the mucous membranes  
Eye contact: Dust may cause discomfort or irritation

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#### Ecological information

Because product is soluble in water it could alter the pH if washed into watercourses. Product is a source of nitrogen and could act as a plant nutrient. In the event of large spillage, advise appropriate authority.

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#### Disposal considerations

Dispose of surplus product or contaminated packaging according to local and national legislation. Do not dispose with alkalis.

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#### Transport information

Not classified as hazardous for transport.

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#### Regulatory information

Not classified under Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 as hazardous. Refer to Health and Safety at Work Act and the Control of Substances Hazardous to Work Regulations. This material safety data sheet does not constitute the user's own assessment of workplace risk as required by the above regulations. The Manual Handling Operations Regulations may be applicable to certain pack sizes of this product.

Mandatory labelling not applicable (EEC directive 67/548/EEC)

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#### Other information

The information in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on safety health and environmental aspects of the product and should not be construed as any guarantee of performance. The product should not be used for purposes other than fire-fighting without first referring to the supplier. The user is responsible for ensuring that requirements of relevant legislation are complied with. Further information may be obtained from the following Health and Safety Executive publications:

EH40 Occupational Exposure Limits (updated annually)  
EH44 Dust: General principles of protection

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