

Material Safety Data Sheet



Moyne Roberts Ltd

Chemical Product and Company Identification

Trade name: Moyne Roberts ABC 50
Product Application: Powder Fire Extinguishant
Distributor: Moyne Roberts Ltd
Moynehall, Cavan Town, Co Cavan, Ireland.
Telephone: + 353 (0) 49 4332477 Fax: + 353 (0) 49 4361159

Composition and ingredient information

Component name	CAS no	EINECS no
Monoammonium phosphate	7722-76-1	231-764-5
Ammonium sulphate	7783-20-2	231-984-1

Risk/Safety Phrases (CHIP-2)

Xi R37/38
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.

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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)

Exposure controls and personal protection

Occupational exposure standards:

United Kingdom OES: 10mg/m³ total dust: 4mg/m³ 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.

Physical and chemical properties

Appearance: Fine, yellow powder

Odour: Odourless

pH: 4.5 of 5% solution in water

Density: Settled apparent density 1000-1300 kg/m³;
loose density 1.8g/m³

Solubility: Soluble in water but silicon additive delays dissolution

Flammability: Non-flammable

Decomposition: at 190°C in flame zone

Stability and reactivity

Reacts with alkalis to liberate ammonia.
If powder becomes damp or hard it is not suitable for fire-fighting purposes.

Toxicological properties

Data on acute toxicity Oral, rat, LD₅₀

Ammonium sulphate 3000mg/kg

Monoammonium phosphate Unknown toxicity. It is a general purpose food additive.

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

Ecological information

Because product is soluble in water it could lower the pH if washed into watercourses. In the event of large spillage, advise appropriate authority. Note: ammonium salts and phosphates act as plant nutrients.

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Disposal considerations

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

Transport information

Not classified as hazardous for transport.

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).

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
