

# MATERIAL SAFETY DATA SHEET - DRY POWDER

## 1. Identification of product/substance and company

Product Identifier ABC Powder  
Trade Name  
Chemical Description  
Chemical Formula  
Registration No.  
Use Fire extinguishing agent

## 2. Hazards Identification

For Humans  
Product:  
EU Classification Harmful  
R-Phrases 22 Harmful if swallowed  
36/37/38 Irritating to eyes, respiratory system and skin  
S-Phrases 26 In case of contact with eyes, rinse immediately with water and seek medical advice.  
36 Wear suitable protective clothing

Components:  
Ammonium dihydrogen phosphate  
EU Classification Harmful  
R-Phrases 22 Harmful if swallowed  
36/37/38 Irritating to eyes, respiratory system and skin  
S-Phrases 26 In case of contact with eyes, rinse immediately with water and seek medical advice  
36 Wear suitable protective clothing

Ammonium sulphate  
EU Classification Irritant  
R-Phrases 36/37/38 Irritating to eyes, respiratory system and skin  
S-Phrases 26 In case of contact with eyes, rinse immediately with water and seek medical advice  
36 Wear suitable protective clothing

## 3. Composition & Information on Ingredients

Reach No.	CAS No.	Ingredients	%	EU Classification
231-764-5	7722-76-1	Ammonium dihydrogen phosphate	>95	R22, R36/37/38
231-984-1	7783-20-2	Ammonium sulphate	>95	R36/37/38
N/A	N/A	Other non-hazardous materials	>5	N/A

#### 4. First Aid Measures

Contact with Skin	Wash off the skin using plenty of water.
Contact with Eyes	Hold eyelids apart and irrigate for a minimum of 10 minutes.
Inhalation	Remove affected person to fresh air and rest.
Ingestion	Rinse all the powder from the mouth with water and give affected person plenty of water to drink. Seek medical advice.

#### 5. Fire Fighting Measures

The product is a fire extinguishing agent. No special precautions are required.

#### 6. Accidental Release Measures

Use a vacuum cleaner to reduce dust formation and remove to sealed bags or containers for disposal in accordance with local Controlled Waste Regulations.

#### 7. Handling & Storage

Handling	Use local mechanical exhaust ventilation and suitable containment methods. Keep personnel exposure to a minimum.
Storage	Keep the product in a cool dry place away from vibration to minimise compaction of the product.

#### 8. Personal Protection & Exposure Controls

Personal Protection	
Eye Protection	Wear suitable dust-proof goggles
Respiratory Protection	Use suitable dust mask or respirator Keep exposure below OES
Skin/General Protection	Wear overalls and gloves suited to the task
Exposure Standards (UK)	
OES	10mg/m <sup>3</sup> total dust: 5mg/m <sup>3</sup> resp. dust
	Time-weighted averages: 8 hours
Nuisance Dust Limit	OSHA TWA: 15mg/m <sup>3</sup>
	ACGIH TLV-TWA 10mg/m <sup>3</sup>

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program I.A.R.C. or OSHA.

#### 9. Physical & Chemical Properties

Appearance	Yellow solid powder
Odour	None
Boiling Point	Not applicable
Flash Point	Non-flammable
Autoignition	Non-flammable
pH	4.5 as 1% solution in water
Explosive Properties	None
Solubility in Water	38g/100ml
Density at 20°C (kg/m <sup>3</sup> )	1050 ±10
Oxidising Properties	Not an oxidiser
Vapour Pressure	Not applicable
Relative Density	Not applicable

## 10. Stability & Reactivity

Stability	Stable
Conditions to avoid	Damp powder becomes hard and is not suitable for firefighting purposes
Hazardous decomposition products	Normally stable.
Materials to avoid	Hazardous polymerization will not occur Will react to alkalis and give off ammonia

## 11. Toxicological Information

Test Data	Product has not been tested for toxicological effects. Product is treated as a nuisance dust.
Components:	Ammonium dihydrogen phosphate Ammonium sulphate
Exposure Hazards:	
Skin Contact	Mild irritant only
Ingestion	Non-harmful
Eye Contact	Dust can cause irritation and discomfort
Inhalation	Lung function impairment if inhaled over a long period of time

## 12. Ecological Information

Ecotoxicity	No data available	
Biodegradability	Not relevant	
Mobility	Not relevant	
Bio accumulative Potential	Not determined	
Other Adverse Effects	Ozone depletion potential	None
	Photochemical ozone creation potential	None
	Global warming potential	None

## 13. Disposal Considerations

Do not dispose with alkalis. Waste to be disposed of in accordance with local Controlled Waste Regulations.

## 14. Transport Information

Substance ID No.	None
Correct Shipping Name	Not applicable
Land Transport	Not classified
Marine Transport	Not classified
Air Transport	Not classified

## 15. Regulatory Information

EC Classification	Harmful
Hazard Symbol	Xi
R-Phrases	22 Harmful if swallowed 36/37/38 Irritating to eyes, rinse immediately with water and seek medical help
S-Phrases	26 In case of contact with eyes, rinse immediately with water and seek medical help 36 Wear suitable protective clothing



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## 16. Other Information

This product should not be used for purposes other than fire-fighting without obtaining written authorisation from the supplier named in paragraph 1. It is the user's responsibility to maintain compliance with all relevant, current legislation when using, transporting, storing, and handling this product. HSE publications EH40 and EH44 apply.