

### POWDER EXTINGUISHERS



**Powder extinguishers** are suitable for use on Class A, B and also Class C type fires involving flammable gases such as propane and butane. Powder is also highly effective for electrical hazards. This multi-purpose powder interferes with the combustion process and provides rapid fire knock down.



Part Number	4522290	4522260	4522220	4520810
Type	Powder	Powder	Powder	Powder
Capacity (ltr)	9	6	2	1
Full Weight (kg)	13.7	9	3.4	2
Cylinder Weight (kg)	4.3	2.6	1.2	0.7
Cylinder Height (mm)	474	438	285	270
Cylinder Diameter (mm)	185	150	110	85
Minimum Discharge (s)	25	21	10	7
Temperature Range (°c)	-30 to 60	-30 to 60	-30 to 60	-30 to 60
Working Pressure at 20°c	15 bar	15 bar	15 bar	15 bar
Test Pressure	30 bar	30 bar	30 bar	30 bar
Fire Rating	55A:233BC	43A:233	13A:89B C	8A:55BC
Approved to BS EN3	Yes	Yes	Yes	Yes
Marine Approved	Yes	Yes	Yes	Yes
Warranty*	5 Years	5 Years	5 Years	5 Years

We reserve the right to change the design and specification without prior notice. December 2012

\* if maintained by a competent person in accordance with BS 5306

# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### 1.1 Identification of the preparation

Product Name: "ABC 30"  
Chemical Name: N/A-This is a mixture/preparation.  
CAS No.: N/A-This is a mixture/preparation.  
Chemical Formula: N/A-This is a mixture/preparation.  
EINECS Number: N/A-This is a mixture/preparation.

### 1.2 Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

### 1.3 Company Identification

Manufacture/Supplier: YUYAO RUIYANG EXTINGUISHER MEDIUM LTD.  
Address: Mazhu Town Yuyao City Zhejiang China  
Prepared by: Safety and Health Department  
Phone: 086-574-62467055  
Internet/Home Page:  
Date of issue: December, 2008

### 1.4 Emergency telephone

086-574-62469300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### 2.1 Ingredient Name: Monoammonium Phosphate

Chemical Formula:  $\text{NH}_4\text{H}_2\text{PO}_4$   
CAS No: 7722-76-1  
EINECS Number: 231-764-5

Concentration, Wt % :  $30 \pm 2$  %  
Hazard identification: See Heading 3

Ingredient Name : Ammonium sulfate  
Chemical Formula:  $(\text{NH}_4)_2\text{SO}_4$   
CAS No: 7783-20-2  
EINECS Number: 231-984

Concentration, Wt % :  $56 \pm 2$  %  
Hazard identification: See Heading 3

Ingredient Name : Talc  
Chemical Formula:  $\text{Mg}_3\text{H}_2(\text{SiO}_3)_4$   
CAS No: 14807-96-6  
EINECS Number: 238-877-9

Concentration, Wt % : 3-7 %  
Hazard identification: See Heading 3

Ingredient Name : Silica white  
Chemical Formula:  $\text{SiO}_2$   
CAS No: 7631-86-9  
EINECS Number: 231-545-4

Concentration, Wt % :  $\leq 3$  %  
Hazard identification: See Heading 3

Ingredient Name : Methyl Hydrogen Polysiloxane  
Chemical Formula: Mixture/preparation

CAS No: 63148-57-2  
EINECS Number: 203-492-7

Concentration, Wt % : <1%  
Hazard identification: See Heading 3

Ingredient Name : pink Pigment

Chemical Formula:  
CAS No.:  
EINECS Number:  
Concentration, Wt % : <0.04 %

Hazard identification: See Heading 3

(a) EINECS does not include synthetic polymers (These are registered in EINECS under their building blocks, monomers). See: 67/548/EEC, article 13. 79/831/EC; and 81/437/EC.

(b) EINECS does not include most naturally occurring raw materials. See: 67/548/EEC, article 13; 79/831/EC; and 81/437/EC.

NOTE: Unless a component presents a severe hazard , it does not need to be considered in the MSDS if the concentration is less than 1%. (According to Directive 1999/45/EC.)

### 3. 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 plenty of water and seek medical advice .
	36	Wear suitable protective clothing .

##### Components :

##### Monoammonium 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 plenty of water and seek medical advice .
	36	Wear suitable protective clothing .

##### Ammonium sulfate :

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 plenty of water and seek medical advice .
	36	Wear suitable protective clothing .

##### Limit Values for Exposure :

Nuisance dust limit :	
OSHA TWA :	15 mg/m <sup>3</sup>
ACGIH TLV-TWA :	10 mg/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 .

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE , avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin ,eyes ,and clothing .

##### SIGNS AND SYMPTOMS :

##### Acute Exposure:

Eye Contact :	Mildly irritating for short periods of time .
Skin Contact :	May be mildly irritating .
Inhalation :	Treat as a mineral dust irritant to the respiratory tract. Transient cough , shortness of breath .
Ingestion :	Not an expected route of entry .

##### Chronic Overexposure :

Inhalation :	Chronic fibrosis of the lung, pneumoconiosis .
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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE : None known .

##### FOR ENVIRONMENT :

No data available .

### 4. FIRST AID MEASURES

Eye Contact :	Wash with water for a minimum of 15 minutes . If irritation persists seek medical attention .
Skin Contact :	Wash affected area with soap and water . If irritation persists seek medical attention .
Inhalation :	Remove from exposure . If irritation persists seek medical attention .
Ingestion :	If patient is conscious , give large amounts of water and induce vomiting . Seek medical help .

### 5. FIRE-FIGHTING MEASURES

This preparation is an extinguishing media .

There are NO extinguishing media which must not be used for safety reasons .

NO special protective equipment is needed for fire-fighters. Wear protective equipment appropriate for the fire conditions .

### 6. ACCIDENTAL RELEASE MEASURES

For personal protection : Prevent skin and eye contact, see Heading 8 .

Clean up: Sweep up and recover for use or place in closed container for disposal, see Heading 13 .

NO harm to the environment is expected from an accidental release of this preparation .

### 7. HANDLING AND STORAGE

#### 7.1 Handling

Care should be taken in handling all chemical substances and preparations .

See incompatibility information in Heading 10 .

#### 7.2 Storage

NO special conditions are needed for safe storage .

See incompatibility Information in Heading 10 .

Store in original container or Ansul fire extinguisher . Keep tightly closed until used .

There is minimal danger to the environment from a storage release .

### 7.3 Specific use

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT .

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### 8.1 Exposure limit values

Nuisance dust limit:

OSHA TWA : 15mg/m<sup>3</sup>

ACGIH TLV-TWA : 10mg/m<sup>3</sup>

### 8.2 Exposure controls

#### 8.2.1. OCCUPATIONAL EXPOGURE CONTROLS

##### 8.2.1.1. Respiratory protection

Dust mask where dustiness is prevalent, or TLV is exceeded . Use mechanical filter respirator If exposure is prolonged .

##### 8.2.1.2. Hand protection

None normally needed. Use chemical resistant gloves when handling the preparation .

##### 8.2.1.3. Eye protection

Use safety glasses with side shields or safety goggles .

##### 8.2.1.4. Skin protection

No special equipment is needed .

#### 8.2.2 Environmental exposure controls

No special controls are needed .

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### 9.1. General information

Appearance : Powder.

Odor : Pink

### 9.2. Important health, safety, and environmental information

PH: Not determined .

Boiling point/boiling range : Not applicable .

Flash point : None .

Flammability (solid/gas) : Not flammable .

Explosive properties : Not explosive .

Oxidizing properties : Not an oxidizer

Vapor Pressure: Not applicable.

Relative Density: Not applicable.

Solubility:

—Water solubility: Slight.

—Fat solubility: Not soluble.

Partition coefficient, -octanol/water: Not determined.

Viscosity: Not applicable.

Vapor density (Air = 1): Not applicable.

Evaporation rate: Not applicable.

### 9.3. Other information

Auto-ignition temperature: Does not ignite.

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## 10. STABILITY AND REACTIVITY

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### 10.1. Conditions to avoid

There are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

### 10.2. Materials to avoid

Strong alkalis, magnesium, oxidizers that can release chlorine or produce Nce3 (explosive) per NFPA 10 Annex A-2-1.

### 10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will NOT occur.

Ammonia and/or phosphorous oxides can be evolved at very high temperatures.

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## 11. TOXICOLOGICAL INFORMATION

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This product has not been tested for toxicological effects. Product is treated as a nuisance dust.

Components:

Monoammonium Phosphate:

Material is irritating.

Harmful if swallowed.

Ammonium sulphate:

Toxicity Data: Oral (rat) LD50 2840 mg/kg.

Target Organs: Lungs and gestrointestinal.

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## 12. ECOLOGICAL INFORMATION

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### 12.1. Ecotoxicity

Not determined.

**12.2. Mobility**

Not determined.

**12.3. Persistence and degradability**

Not determined.

**12.4. Bioaccumulative potential**

Not determined.

**12.5. Other adverse effects**

Ozone depletion potential: None.

Photochemical ozone creation potential: None.

Global warning potential: None.

**13. DISPOSAL CONSIDERATIONS**

NO harm to the environment is expected from this preparation.

Dispose of in compliance with national, regional, and local provisions that may be in force.

**14. TRANSPORT INFORMATION**

Hazard Class or Division: Not a hazardous substance.

For additional transport information, contact Ansul Incorporated.

No harm to the environment is expected from this preparation.

**15. REGULATORY INFORMATION****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 plenty of water and seek medical advice.
	36	Wear suitable protective clothing.

**Limit values for Exposure:****Nuisance dust limit:**OSHA TWA: 15 mg/m<sup>3</sup>.ACGIH TLV-TWA: 10 mg/m<sup>3</sup>.

EINECS Status: All components are included in EINECS inventories or are exempt from listing.

EPA TSCA Status: All components are included in TSCA inventories or are exempt from listing.

Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.

Environmental restrictions: None are known.

Refer to any other national measures that may be relevant.

**16. OTHER INFORMATION****(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:**

HEALTH:	<u>1</u>	4. Severe Hazard
FLAMMABILITY:	<u>0</u>	3. Serious Hazard
REACTIVITY:	<u>0</u>	2. Moderate Hazard
		1. Minimal Hazard

**(WHMIS) CANADIAN WORKPLACE HAZARDIOUS MATERIAL IDENTIFICATION SYSTEM RATINGS;**

This product is rated: D2B - Product may irritate skin, eyes or mucous membranes.

Format is from directive 2001/58/EC.

EINECS data is from <http://exb.jrc.lt/existing-chemicals/>

Data used to compile the data sheet is from Ansul Material Safety Data Sheet, March, 2003.

Toxicological information added from the EINECS ESIS (Existing Substances Information System).

A rating under WHMIS has been added, following the Canadian guidelines.

**17. DISCLAIMER**

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT. BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. SUZHOU WUYUE SYNTHETIC CHEMICAL FACTORY SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available