



# MATERIAL SAFETY DATA SHEET

## I - Product Identification

### Product Identifier:

{ Fire Extinguisher ABC Multipurpose Dry Chemical  
{ Fire Extinguisher Powder ABC Multipurpose

Chemical Name: ABC Dry Chemical (Mono-Ammonium Phosphate)

Chemical Family: Mixture Formula:  $(\text{NH}_4)_2\text{H}_2\text{PO}_4$

### Product Use:

Used in the application of extinguishing fires.

### Manufacturer's Name and Telephone Number:

Flag Fire Equipment  
Hwy #2 & Patillo Road, RR#1  
Tecumseh, Ontario  
N8N 2L9

Emergency Telephone: 519-727-6722

Technical Information: 519-727-6722

## II - Hazardous Ingredients

Name	%	Cas #	LD <sub>50</sub>	LC <sub>50</sub>
Silica Gel	0.12	112926-00-8	>4500 mg/kg/rat	>2 mg/hr/rat

### Other Ingredients

Name	Cas #
Mono Ammonium Phosphate	7722-76-3
Tricalcium Phosphate	12167-74-7
Methyl Hydrogen Polysiloxane	63148-57-2

Fire Extinguishers contain compressed air to ensure a high velocity discharge of product. WHMIS Class A.

## III - Physical Data

Physical State	Solid
Odour and Appearance	Yellow Crystal and odourless
Odour Threshold (ppm)	Not Applicable
Vapour Pressure (mm Hg)	Not Applicable
Evaporation Rate	None
Boiling Point (°C)	Not Applicable
Freezing Point (°C)	Not Applicable
pH	4.5 of 1% solution
Specific Gravity	Not Applicable
Solubility in Water	38 grams / 100 ml H <sub>2</sub> O

## IV - Fire and Explosion Data

Flashpoint (°C) and Method:	Non-flammable
Means of Extinction	None required
Upper Flammable Point	Not Applicable
Lower Flammable Point	Not Applicable
Auto Ignition Temperature (°C)	Not Applicable
Hazardous Combustion Products	None Known

### Explosion Data

Sensitivity to Impact	Not Applicable
Sensitivity to Static Discharge	Not Applicable

## V - Reactivity Data

† Yes Chemical Stability  
† Yes Incompatibility with other substances

### Conditions to avoid:

Do not mix with strong Alkalies

### Hazardous Decomposition Products

Decomposes if heated above 121°C - 135°C  
Ammonia, Carbon Monoxide and Oxides of Nitrogen are produced.

## VI - Toxicological Properties

### Route of Entry

† Skin Contact                      † Eye Contact                      † Inhalation  
z Skin Absorption                  † Ingestion

### Effects of Overexposure:

At high dust concentrations, irritation of eyes, skin and mucus membranes by chemical or mechanical action may occur.

Exposure Limits	Not Available
Irritancy of Product	Not Available
Sensitization to Product	Not Available
Carcinogenicity	None. Product is considered a nuisance dust. Silica Gel is a Synthetic Amorphous Silica which is considered a nuisance dust and no medical conditions are abnormally aggravated by this product.
Teratogenicity	None
Reproductive Toxicity	None
Mutagenicity	None
Synergistic Products	Not Available

## VII - Preventative Measures

Gloves	None Required
Respirator	If in high dust concentration, wear a properly fitted NIOSH-approved dust respirator
Footwear	None Required
Clothing	None Specified
Eyewear	None Required

### Engineering Controls

Adequate ventilation should be available to maintain dust levels below applicable standards on respirable and total nuisance dust. (at recharge stations only)

### Leak and Spill Procedure

Ensure clean-up is performed by trained personnel only. Shovel or sweep up dry material for recycling or disposal. Flush residue with water.

### Waste Disposal

Review federal, provincial/state, and local government requirements prior to disposal. Disposal by secure landfill may be acceptable.

Handling Procedures	Avoid container damage
Storage Requirements	Cool dry areas
Special shipping information	Fire Extinguisher Class 2.2 UN # 1044

## VIII - First Aid Measures

Inhalation:	If breathing difficulty occurs because of dust inhalation, remove to fresh air.
Ingestion:	If person is conscious, give large amounts of water.
Eye Contact:	If eye irritation occurs, flush with copious amounts of water. Get medical attention if irritation persists.
Skin Contact:	Wash with mild soap and water.

## IX - Preparation Date of MSDS

Prepared by Department: Health and Safety  
Date: 01/01/2002

"Information contained herein is provided without any warranty. Flag Fire Equipment Ltd. will not be liable for any damage which may result from the use or reliance on any information contained herein." Before any product is used, the label should be carefully read.

**MSDS Control # 501-90MS**

Fire Extinguisher ABC Multipurpose Dry Chemical