

Material Safety Data Sheet

Firex Distribution (Australia) Pty Ltd
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Product Name: **Multipurpose Dry Powder (AB:E)**
Date Issued: 14th March 2009

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

1.1 Identification of the preparation

Product Name: ABE Dry Chemical Powder.
Chemical Name: Not Applicable – This is a mixture / preparation
CAS No: Not Applicable – This is a mixture / preparation
Chemical Formula: Not Applicable – This is a mixture / preparation
EINECS Number: Not Applicable – 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

Manufacturer/Supplier: Ningbo Nenglin Fire Fighting Equipment Co. Ltd
Address: Yunlong town, Yin Zhen, Ningbo city, Zhejiang, 315137, PR China.
Prepared by: Quality and Safety and Health Department
Telephone Number: 0086-0574-88079708
Emergency Telephone: 0086-0574-88493166

2. COMPOSITION / INFORMATION ON INGREDIENTS

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%: 73+/-3%
Hazard identification: See Heading 3

Ingredient Name: Ammonium sulphate
Chemical Formula: $(\text{NH}_4)_2\text{SO}_4$
CAS No: 7783-20-2
EINECS Number: 231-984
Concentration, Wt%: 16+/-2%
Hazard identification: See Heading 3

Ingredient Name: Magnesium Aluminum Silicate (Attapulgite Clay or Fuller's Earth)
Chemical Formula: $\text{Mg}_x\text{Al}_y(\text{SiO}_4)_z$
CAS No: 8031-18-3
EINECS Number: (b)
Concentration, Wt%: 5-7%
Hazard identification: See Heading 3

Ingredient Name: Silica white
Chemical Formula: SiO₂
Concentration, Wt%: ≤3%
Hazard identification: See Heading 3
Ingredient Name: Methyl Hydrogen Polysiloxane
Chemical Formula: Mixture / preparation
CAS No: 63148-57-2
EINECS Number: (a)
Concentration, Wt%: ≤1%
Hazard identification: See Heading 3
Ingredient Name: Grey Pigment
Chemical Formula: C₃₄H₃₈C₁₂N₄O₄
CAS No: 5468-75-7
EINECS Number: 226-489-3
Concentration, Wt%: ≤0.05%
Hazard identification: See Heading 3

- (a) **EINICS** does not include synthetic polymers (There are registered in EINICS under their building blocks, monomers). See: 67/548/EEC, article 13, 789/831/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

3. HAZARDS IDENTIFICATIONS

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:

R Phrases: 22 Irritant
 36/37/38 Harmful if swallowed.
S Phrases: 26 Irritating to eyes, respiratory system and skin
 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:** 15mg/m²
ACGIH TLV-TWA: 10mg/m²

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.

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 and accidental release of this preparation.

7. HANDLING AND STORAGE

Handling:

Care should be taken in handling all chemical substances and preparations. See incompatibility information in Heading 10.

Storage:

NO special conditions are needed for safe storage. Store in original container or fire extinguisher. Keep tightly closed until used. There is minimal danger to the environment from a storage release.

Specific Use:

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

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure limit values

Nuisance dust limit:

OSHA TWA: 15mg/m²

ACGIH TLV-TWA: 10mg/m²

Exposure Controls:

Occupational Exposure Controls

Respiratory Protection:

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

Hand Protection:

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

Eye Protection:

Use safety glasses with side shields or safety goggles.

Skin Protection:

No special equipment is needed.

Environmental Exposure Controls

No Special controls are needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Appearance:

Powder

Colour:

Yellow

Important health, safety and environmental information

PH:

Not determined.

Boiling Point F (C)

Not applicable

Flash Point:

None

Flammability (solid/gas):

Not flammable

Explosive properties:

Not explosive

Oxidising properties:

Not an oxidizer.

Vapour Pressure:

Not Applicable

Relative Density:

Not Applicable

Solubility:

Slightly Water Soluble, Not Fat soluble.

Partition coefficient-octanol/water:

Not determined.

Viscosity:

Not applicable

Vapour Density (Air-1):

Not applicable

Evaporation rate:

Not applicable

Auto-ignition temperature:

Does not ignite.

10. STABILITY / REACTIVITY

Conditions to Avoid:

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

Materials to avoid:

Strong alkalis, magnesium, oxidizers that can release chlorine or produce Nee3 (explosive) per NFPA 10 Annex A-2-1

Hazardous decomposition products:

Normally stable. Hazardous polymerisation will NOT occur. Ammonia and / or phosphorous oxides can be evolved at very high temperatures.

11. TOXICOLOGICAL INFORMATION

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 2840mg/kg
Target Organs: Lungs and gastrointestinal.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not determined
Mobility: Not determined
Persistence and degradability: Not determined
Bioaccumulative potential: Not determined
Other adverse effects: Ozone depletion potential: None.
Photochemical ozone creation potential: None
Global warming 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

UN Number: 1044
Dangerous Goods Class: 2.2

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.
Exposure limit values
Nuisance dust limit: OSHA TWA: 15mg/m²
ACGIH TLV-TWA: 10mg/m²

16. OTHER INFORMATION

Hazardous Material Identification System Ratings (HMIS):

Health 1
Flammability 0
Reactivity 0

Key: Severe Hazard = 4, Serious Hazard = 3, Moderate Hazard = 2, Minimal Hazard = 1

Other information

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. Nigbo Nenglin Fire-Fighting Equipment Co., Ltd shall not be held liable for any damage resulting from handling or from contact with the above product

End MSDS