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

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**1.1 Identification of the preparation**

Product Name: WY40ABC-01 Dry Chemical Powder  
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: Suzhou Wuyue Synthetic Chemical Factory  
Address: Mudu Town, Suzhou City, Jiangsu Province, China  
Prepared by: Quality and Safety and Health Department  
Phone: 0086-0512-66360365/66262314  
Internet/Home Page:  
Date of issue: JAN. 2020

**1.4 Emergency telephone**

0086-574-88493166

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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**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 % :  $42 \pm 2$  %  
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 % :  $46 \pm 2$  %  
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:  $\text{SiO}_2$   
CAS No:

EINECS Number:  
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: (a)  
Concentration, Wt % : <1%  
Hazard identification: See Heading 3

Ingredient Name : Grey Pigment

Chemical Formula:  $\text{C}_{34}\text{H}_{30}\text{C}_{12}\text{N}_6\text{O}_4$   
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 (These are registered in EINICS under their building blocks, monomers). See: 67/548/EEC, article 13. 79/831/EC; and 81/437/EC.

(b) EINICS 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.)

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**3. HAZARDS IDENTIFICATION**

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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 , respiratry 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 careinogenic 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

<b>Eye Contact :</b>	Wash with water for a minimum of 15 minutes . If irritation persists seek medical attention .
<b>Skin Contact :</b>	Wash affected area with soap and water . If irritation persists seek medical attention .
<b>Inhalation :</b>	Remove from exposure . If irritation persists seek medical attention .
<b>Ingestion :</b>	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 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 .

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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 .

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information

Appearance : Powder.

Colour : Yellow, Blue or 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.

## 10. STABILITY AND REACTIVITY

### 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.

## 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 2840 mg/kg.

Target Organs: Lungs and gestrointestinal.

## 12. ECOLOGICAL INFORMATION

### 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 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**

**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**

<b>(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:</b>		
<b>HEALTH:</b>	<u>1</u>	4. Severe Hazard
<b>FLAMMABILITY:</b>	<u>0</u>	3. Serious Hazard
<b>REACTIVITY:</b>	<u>0</u>	2. Moderate Hazard
		1. Minimal Hazard

<b>(WHMIS) CANADIAN WORKPLACE HAZARDIOUS MATERIAL IDENTIFICATION SYSTEM RATINGS;</b>	
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 Material Safety Data Sheet, March, 2003.  
 Toxicological information added from the EINECS SIS (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. NINGBO NENGLIN FIRE-FIGHTING EQUIPMENT CO.,LTD 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