

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** FIREWORLD ABE POWDER EXTINGUISHER  
**Other Names:** Prestolit ABE Powder Extinguisher with compressed gas: (1.0kgABE, 1.5kgABE, 2.0kgABE, 2.5kgABE, 4.5kgABE, 9.0kgABE)  
**Recommended Use:** The intended recommended use of this preparation is as a fire extinguishing agent  
**Supplier Name:** Safeworld Limited  
**Address:** 1/31A Veronica Street  
 New Lynn, Auckland 0600  
**Emergency No:** +64 9 218 9403 – +64 21 2852161  
**Manufacturer:** Zhejiang Ruihua Machinery Co., Ltd.  
 Yuyao, Zhejiang P. R. China  
**Tel:** +86 574 6200 3798

## 2. HAZARD IDENTIFICATION

**Hazard Classification:** Class 2 Sub Class 2  
**Safety Phrase(s):** 26, 36  
**Risk Phrase(s):** 22, 36 / 37 /38  
 When in contact with out gushing fire extinguishing agent (powder) irritation may occur in open sores as well as eyes and throat.  
 The fire extinguisher is at 15 bars super pressure. If subjected to high temperatures (over 60°C) the safety device might release (25 bar)

## 3. COMPOSITION INFORMATION ON INGREDIENTS

Chemical name	Chemical formula	CAS no	Quota %	Risk/safety phrases
Mono Ammonium phosphate	NH4H2PO4	7722-76-1	21.5±1.5 %	
Ammonium Sulphate	NH4H2SO4	7783-20-2	68±3 %	
Silicates		72319-10-9	Residual	
Barium, iron, possum and silicon				
Nitrogen	N2	7727-37-9		UN1066

## 4. FIRST AID MEASURES

**Inhalation:** Move to fresh air  
**Skin contact:** Wash off with plenty of water  
**Eye contact:** Irrigate with fresh water for at least 10 minutes eyelids apart  
**Ingestion:** Rinse mouth with water and give plenty of water to drink. If other symptoms persist seek medical advice and treat symptomatically.

**Medical Attention and Special Treatment:** See Above  
**Aggravated Medical Conditions Caused by Exposure:** None known

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** This is an Extinguishing Agent  
**Hazards from Combustion:** Ammonia and/or phosphorus oxides  
**Products:**  
**PPE for Fire Fighters:** None  
**Hazchem Code:** Not Hazardous  
 After use remove residual fire extinguishing agent from corrosion sensitive materials.

## 6. ACCIDENTAL RELEASES MEASURES

**Emergency Procedures:** Avoid Skin and eye contact  
**Methods and Materials for Containment and Clean up:** Clear up spillage and transfer to a sealed container for recycling or disposal. Vacuum cleaning is recommended to minimise dust formation.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Good housekeeping Practises  
**Conditions of Safe Storage:** Storage dry and free from vibrations.  
**Including any Incompatibilities:** Keep away from natrium hypochlorite (bleach).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards:** NA  
**Engineering Controls:** Not Available  
**Biological Limit Controls:** Not Available  
**Personal Protection:** For long term exposure of the powder suitable respiratory protection, i.e. dust mask/respirator, Chemical goggles, chemical resistance gloves should be used.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance Description:** Yellow/blue Crystals  
 Fire extinguisher for ABE -fires (fibrous materials, liquids, and electrical equipment).  
**pH:** 4,5 in 5% water-based solution.  
**Apparent Density:** 1,3 (fire extinguishing agent)  
**Stability in Temperature:** -30°C ~ +60°C  
 At 190°C in flame zone (fire extinguishing agent).  
**Upper and Lower Flammable:** Not Explosive  
**Limits in Air:**  
**Boiling Point Range:** NA  
**Flash Point:** None  
**Ignition Temperature:** Does not Ignite  
**Solubility:** Fire extinguishing agent is soluble in water but the silicon makes the process slow.

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable  
**Hazardous Reactions:** None  
**Conditions to Avoid:** None  
**Hazardous Decomposition Products:** Ammonia and/or Phosphorous Oxides can be evolved at very high Temperatures  
**Solubility:** The fire extinguishing agent frees ammonium when reacting with alkalis. If the powder becomes damp or hard it is no longer suitable for firefighting. Corrosive with water.

## 11. TOXICOLOGICAL PROPERTIES

The following concerns the fire extinguishing agent:  
 Information on acute toxicity: Oral, rat, LD50 (lethal dose 50).  
 Ammonium sulphate: 3000 mg/kg  
 Monoammonium phosphate: Unknown toxicity. It is a general food additive.  
**Digestion:** Virtually harmless  
**Skin contact:** Can cause mild irritation  
**Inhalation:** Inhalation of dust can under long periods of time deteriorate lung function.  
**Eye contact:** The dust can cause discomfort or irritation.

## 12. ECOTOXICOLOGICAL INFORMATION

As the fire extinguishing agent is soluble in water it can cause a lowering of pH-value if released into the water ways. Contact the proper authorities when spillage of large quantities. Note: Ammonium salts and phosphates acts as fertilizers for plants.

## 13. DISPOSAL CONSIDERATION

Dispose of superfluous powder and used cans in accordance with local and regional regulations. Do not dispose with alkalis.

## 14. TRANSPORT INFORMATION

ADR RID	IMDG	DGR (flyg)
UN nr: 1044 Class: 2	UN no: 1044 Class: 2.2	Class: ABC 30 Powder
Ämnesnr: 6A	EmS no: 2-13	Extinguisher with compressed gas:
Etikettnr: 2/LQ	MFAG no: 620 Packing group:	

## 15. REGULATORY INFORMATION

The powder is not classified as hazardous according to regulations for chemicals. (Information about hazards and packaging of wares, 1994). Control rules for working environment and hazardous elements in the working environment. This material safety sheet does not replace the user's own judgement of the size of the workplace and environment in accordance with the above mentioned rules. In some cases, depending on packaging size, the rules for manual handling of the product might apply.

## 16. OTHER INFORMATION

The information about the fire extinguishing agent in this document is based on the powder manufacturer's data. The information is based on the knowledge and regulations of today. It is a guide for health and environment concerns concerning to the product and should not be considered a guarantee of function. The product should never be used for anything but fire fighting, without first contacting the supplier. The user is responsible that valid laws and regulations are being followed. Additional information exists in the health and safety documents at the manufacturers.