

Powder Extinguisher

1. PRODUCT AND COMPANY

Product name:

Prestolit ABE Powder Extinguisher with compressed gas:
(R1.0ABE, R1.5ABE, R2.0ABE, R2.5ABE, R4.5ABE, R9.0ABE)

Manufacturer: Zhejiang Ruihua Machinery Co., Ltd.

Yuyao, Zhejiang P. R. China

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2. COMPOSITION / CLASSIFICATION

Chemical name	Chemical formula	CAS no	Quota %	Risk/safety phrases
Monoammonium phosphate	NH ₄ H ₂ PO ₄	7722-76-1	21.5±1.5 %	
Ammoniumsulphate	NH ₄ H ₂ SO ₄	7783-20-2	68±3 %	
Silicates		72319-10-9	Residual	
Barium, iron, possum and silicon				
Nitrogen	N ₂	7727-37-9		

3. HAZARD IDENTIFICATION

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),

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.

5. FIRE FIGHTING MEASURES

The product is a fire-extinguisher. After use remove residual fire extinguishing agent from corrosion sensitive materials.

6. ACCIDENTAL RELEASES MEASURES

Clear up spillage and transfer to a container for recycling or disposal. Vacuum cleaning is recommended to minimise dust formation.

7. HANDLING AND STORAGE

Storage dry and free from vibrations. Keep away from natriumhypochlorite (bleach).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

For long term exposure of the powder suitable respiratory protection i.e. dust mask/respirator should be used.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description

Fire extinguisher for ABE -fires (fibrous materials, liquids, andelectrical equipment).

Density

1,3 (fire extinguishing agent)

Flame point

Fire-extinguishing agent not flammable.

Material Safety Data Sheet

Solubility

Fire extinguishing agent is soluble in water but the silicon makes the process slow.

PH

4,5 in 5% water-based solution.

Breaks down

At 190°C in flame zone (fire extinguishing agent).

10. STABILITY AND REACTIVITY

The fire extinguishing agent frees ammonium when reacting with alkalis. If the powder becomes damp or hard it is no longer suitable for fire fighting. Storage temperature from -30°C - +60°C. 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 Amnesnr: 6A Etikettnr: 2/LQ	UN no: 1044 Class: 2.2 EmS no: 2-13 MFAG no: 620 Packing group:	Class: ABC 30 Powder Extinguisher with compressed gas:

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'.