BAVARIA®
Fire Fighting Solutions

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MATERIAL SAFETY DATA SHEET In Accordance WithEN 3-10 Clause 5.7 & Directive 1907/EC 2006 EC "REACH" IMCO CLASS NUMBER : 2.2 - UN NUMBER: 1044 IMCO CLASS NUMBER: 2 - UN NUMBER: 1013 "CO2 cartridge"	BAVARIA® Portable Dry Chemical Powder Fire Extinguishers, Internal Cartridge Operated Type: 1 & 2 K Gm, IC- Type	Date :March 2010 Version : 4 Page 1/2

1- Product and Manufacturer Identifications:		
Capacities	Available as filled with BAVARIA dry chemical powder up to 1&2 kg.	
Working Temperature Range	-30° C to 60° C	
Testing Pressure	35 bar	
Bursting Pressure	over 70 bar	
Valve Material	Special engineered polymers –Tigra & Tigra Optima types"	
Discharge Pistol Material	Special engineered recyclable polymers	
Shell Material	Welded steel – DC04 - DIN EN 10130	
Extinguishing Agent	Mono-Ammonium Phosphate (MPA) Based, Dry Chemical Powder	
Paint Finish	Surface treatment and polyester coating.	
Manufacturer Identifications	As mentioned above	
2 – Composition / Component Data		
Chemical characterization	Fire extinguishing powder based on ammonium salts and mineral additives	
Dangerous components	Do not contain dangerous chemicals materials as defined by ordinance on hazardous materials. Equipped with non-flammable compressed gas "CO_2 pressurized internal cartridge".	
Main Components of Dry Chemical Powder	**CAS-No.**	**EINECS-No.**
Mono-ammonium phosphate (based component)	7722-76-1	231-764-5
Ammonium sulphate	7783-20-2	231-984-1

3 – Hazards Identification

- The body is equipped with pressurized Cartridge Carbon Dioxide propellant gas.
- Users of fire extinguisher must be suitably instructed how to use and made aware of any potential risks from misuse.
- It's not allowed to make any changes to the fire extinguisher or fittings" as example welding or soldering.
- In case of long lasting contact with fire extinguishing powders, the skin may become dry.
- During handling 'don't direct the nozzle of extinguisher at another person.
- After Use: Mark empty fire extinguisher "EMPTY", refill after any use, refer to the service agent to refill & recharge it.

Note: Refer to national regulation for periodic maintenance interval; fire extinguisher must not be recharged or serviced except by or with the consent of manufacturer.

4 – First Aid Measures

- In case of inhalation powder, move to fresh air.
- In case of feeling unwell, call a physician.
- In case of skin contact the powder, wash with soap and water.
- In case of eyes contact the powder, remove contact lens and rinse immediately with plenty of water, also under the eyelids for At least 15 minutes, and in case of eye irritation persists, consult physician.
- In case of ingesting, if swallowed, give small amounts of water to drink.

5 – Fire Fighting Measures

The product itself is not flammable and will not burn.

6 – Accidental Release Measures	
Person-related safety precautions	Avoid contact powder with eyes and mucous membrane.
Measures for cleaning / collecting	Quantities of powder can be removed by vacuum cleaners, dispose off accordance with local regulation.
Environmental precautions	Avoid release powder to inter drains or ground water system.

7 – Handling And Storage

- Fire extinguisher should be firmly secured to prevent falling or being knocked over, It must be only securely fastened by its holder /box in such away that it's not physical damaged by abnormal movements or fall out.
- Fire extinguisher can be stored in the open, but in such cases, should be protected against extremes of weather and from the dampness of the ground to prevent rusting.
- Store Fire extinguishers away from heavily trafficked.
- Don't drop fire extinguishers or permit them to strike each other, Do not drag, slide or roll.
- Keep children away from fire extinguishers.
- Keep the fire extinguisher clean, do not use aggressive cleaning agents, clean it with only slightly wet cloth.

8 – Exposure Controls And Personal Protection	
Components with critical values that require monitoring at the work place.	Check that Safety pin and its rivet are still inserted properly.
Precautions before use	The user shall read the printed instructions on the extinguisher body, authorized person may service the fire extinguisher. - Stand back at suitable distance when spraying a person who is on fire. Evacuate and ventilate the area immediately after extinguishing the fire. The fumes and smoke from any fire may be hazardous and can be deadly. Warning: persons suffering from over exposure should be immediately removed to area with fresh air. Apply artificial respiration if necessary& Contact a physician.

8 – Exposure Controls And Personal Protection (con't)		
General protective and hygienic measures	- Avoid powder contact with the skin, eyes, foodstuffs and beverage.	
Personal protective equipment	- It's not required in portable fire extinguisher capacities as 1 k gm. - In case of high and long-lasting contamination of powder you can use a mask If required.	
Ingestion	- It's not a route of ordinary exposure, mono ammonium phosphate is a GRAS "generally recognized as safe " If amounts of powder are ingested , non specific irritation including nausea, vomiting, cramps or diarrhea are noticed, consult physician if needed.	
Protecting of hands	- It's not required to use gloves, in case of long lasting contact with fire extinguishing powder; the skin may become dry.	
Environmental exposure controls	- No ecological problems; do not flush powder into service water, do not let powder inter drains; refer to the local & national regulation, see clause12 also.	
9 – Physical And Chemical Properties Of Powder Agent		
Form	Solid, similar to dust	Evaluation method
Color	White	
pH-value	4 – 4.5 (Suspension 10% in water)	DIN ISO 787/9
Density	Approx. 1.8 g/ml at 20 °C	
Melting range	Approx. >200 °C	
10 – Stability And Reactivity		
Avoiding conditions	Avoid powder agent contact with strong alkali, strong acids, also avoid the mixing with other extinguished agent as strong alkali or mixing with BC fire extinguishing powder.	
11 – Toxicological Information		
LD-50 rat (oral) > 2000 mg/kg		
12 – Ecological Information		
- Powder produced by these extinguishers is rather large and indoors can impair your vision; It will also cover everything in the area in a very fine dust which can cause damage to sensitive electrical equipment, such as computers. - No ecological problems are to be expected when the product is handled and used with due care attention, fertilizing effect is possible.		
13 - Disposal Consideration		
Product: - Fire extinguishers are disposing through recognized company according to local & national legislation once it has been completely depressurized and emptied; treat empty containers as they were full. - The fire extinguisher is under pressure, don't subject it to external force, damaged, the corroded tanks, fittings, cartridges or cylinders must be depressurized by authorized person. - Residues, plastic components and fire extinguishing powders have to be supplied to an approved recycling company refer also to the local and national legislation. **Packing:** Recyclable cardboard and plastic Packs		
14 – Transport Information		
- Product is powder-based and equipped with pressurized Cartridge- Carbon Dioxide propellant gas; ADR/RID and other national regulation should be considered.		
15 – Regulation Information		
Designation according to EG guidelines: Product powder -based is not subject to identification regulations under EC. Directives and the "Ordinance on Hazardous Materials" **German regulations:** Wassergefährdungsklasse " Water hazard class" : class 1 (slightly polluting substance)		
16 – Other Information		
Product described in this safety data sheet only used for fire fighting extinguishing purposes.		

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. BAVARIA EGYPT assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, BAVARIA EGYPT assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.
Existing laws and regulations have to be observed by the consignee in his own responsibility