

MATERIAL SAFETY DATA SHEET (MSDS) (91/155/CEE; 93/112/CEE)

Update 4 of 03/06/2011 | Replaces update 3 of 20/05/2005

PRODUCT: **STANDARD-40 BLUE POWDER – EXTINGUISHER PS1X**

1. PRODUCT IDENTIFICATION

STANDARD-40 BLUE

Dry chemical powder for fire extinguishers AB and C

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2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Chemical Common Name</u> | <u>No de CAS</u> |
|----------------------------------|------------------|
| Monoammonium phosphate monobasic | 7722-76-1 |
| Ammonium sulphate | 7783-20-2 |
| Amorphous silica | 68611-44-9 |
| Polymethylhidrogensiloxane | 72319-10-9 |
| Blue pigment | 147-14-8 |

3. HAZARDS IDENTIFICATION

Some ingredients are classified as “nuisance dust”.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air.

Eyes Contact: Flush eyes with plenty of water. If trouble persists, get medical attention.

Skin Contact: Flush skin with plenty of water and soap.

Ingestion: Never induce vomiting. Rinse the mouth with water. If necessary, get medical attention.

5. FIRE-FIGHTING MEASURES

This product is a fire extinguishing agent.

Special Information:

Low risk. Must avoid inhalation of the product of decomposition.

6. ACCIDENTIAL RELEASE MEASURES

Individual Precautions:

Personal Protective Equipment and Clothing must be used: Keep out quickly any incompatible materials: alkalis or caustics.

Cleaning Methods:

Wipe off the powder and put in a suitable container.

7. HANDLING AND STORAGE

Handling:

If necessary:

Local or generic ventilation,
Handle with care and avoid dust generation,
Avoid electrostatic charges accumulation.

Storage:

Keep closed in the original container
Keep dry at ambient temperature
Keep apart from alkalis
Observe all local warning and precautions for storage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits:

Non established specific TLV. As a guide

| | |
|----------|---------------------|
| TLV/TWA: | 10mg/m ³ |
| STEL: | N.D. |
| PEL: | N.D. |

Respiratory Protection:

For conditions of use where exposure to the dust or mist is over the limits, a half-face dust respirator may be worn.

Skin and Hand Protection:

Make use of gloves
Make use of shirt
Make use of work-boots

Eye Protection:

Use chemical safety goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------|-------------------------------|
| Appearance: | Blue free flow powder |
| Odour: | Odourless |
| pH Value: | (0.1% aq) 4.5 - 6.00 |
| Boiling Point: | up to 190°C |
| Melting Point: | >190°C |
| Flash Point: | N.A. |
| Flammability: | N.A. |
| Relative Density: | 1.65 – 1.85 |
| Solubility: | Non soluble in water |
| Thermal Decomposition: | 190°C |
| Apparent Density: | 0.85 - 0.98 g/cm ³ |
| Vapour Pressure: | N.A. |
| Evaporation Rate: | N.A. |

10. STABILITY AND REACTIVITY

Conditions to Avoid:

From 190° begin to lose ammonia forming phosphorus pentoxide.

Stability:

Stable at normal temperature and pressure (see section 9)

Material to Avoid:

Alkalis
Strong oxidising agents
Aluminium
Lead
Magnesium
Methaneamine
Sodium hypochlorite
Steel
Nitric Salts
Potassium chlorate

Hazardous Decomposition Products:

Ammonia

11. TOXICOLOGICAL INFORMATION

Primary Irritating Effect:

| | |
|-------------------|--------------------|
| Skin irritation | Irritating minor |
| Mucous irritation | Irritating of eyes |

Human Experiences:

There is no evidence of silicosis or another illness of the respiratory tract.

Test in the Long Run:

No negative effect found.

12. ECOLOGICAL INFORMATION

Biodegradability:

N.A.

Ecotoxicity Test EC_{50} at 15' (Equitox/ m^3):

Photobacterium Phosphoreum

$EC_{50} = 18.5 \text{ Equitox}/m^3$

Aquatic Toxicity:

Fish severe toxicity: NOEC (96h) $\geq 500000 \text{ mg/L}$ (bibliography)

Daphnia severe toxicity: NOEC (24h) $\geq 500000 \text{ mg/L}$ (bibliography)

13. DISPOSAL CONSIDERATIONS

Product: Dispose of waste according to applicable local, state, and federal regulations.

Packaging: Dispose of waste according to applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

UN Number: UN 1044

Packaging Group: None

Overland Transport: TPC/TPF: not restricted
ADR/RID: **ADR Class 2.2**

Transport by Sea: IMDG/IMO: not restricted

Air Transport: ICAO/IATA: not restricted

15. REGULATORY INFORMATION

Risk Symbol: N.A.

Risk Phrases: N.A.

Security Phrases: N.A.

16. OTHER INFORMATION

Applications of the Product: Must be used only and exclusively as fire fighting media for A, B and C fires.