



**Material Safety Data Sheet**  
According to TU 4854-002-52459334-01

Printing date 05.10.2001

Reviewed on 11.01.2005

**1 Identification of substance:**

- Product details: Trade name: SEPT (epoxy fire-extinguishing composition)

Application of the substance: the formation of fire-extinguishing aerosol in fire extinguishers (generators)

- Manufacturer/Supplier: "EPOTOS 1" Ltd.; 102-B, Altufyevckoye shosse, Moscow, Russia 127349  
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**2 Composition /Data on components:**

- Chemical characterization: fire extinguishing aerosol forming composition.  
Description: Mixture of the substances listed below with harmless additions.

- Components:

Potassium nitrate (GOST 4217-77)	
Barium nitrate (GOST 1713-79)	
Potassium perchlorate (TU-02-627-78)	
Oxygen-containing binder	
Plasticizer	
Technological additives	

**3 Hazards identification**

- Hazard designation: void
- Information pertaining to particular dangers for man and environment void
- Classification system: The classification is in line with the current technical documentation of the Manufacture. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

**4 First aid measures****•Inhalation effect:**

- The product does not excrete volatile components and does not cause any harm to living creatures.

**•After skin contact:**

The product is not skin irritating.

**•After eye contact:**

- Just watering as if after a foreign substance. Then consult doctor.

**•After swallowing:**

- Rinse out mouth and then drink some water.

**5 Fire fighting measures**

Compound is inflammable.

- Protective equipment:** Use fire fighting measures that suit the handling of easily flammable solid substance.

**Additional information:**

Compound is able to burn without air and constitutes danger when it catches fire in a hermetically closed thick-walled or metal box.

**6 Accidental release measures**

- Person-related safety precautions:**

Ensure adequate ventilation.

(Contd. on page 2)



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(Contd. of page 1)

*Personal protective equipment is not required.  
Adhere to usual hygiene rules.*

- **Measures for environmental protection:** No special measures are required.
- **Measures for cleaning/collecting:** Collect mechanically.
- **Additional information:** No dangerous materials are released.

## **7 Handling and storage**

### • **Handling**

**Information for safe handling:**

*Keep in carton or zinc containers indoor, separate from other kinds of materials.  
Ensure normal ventilation.*

**Information about protection against explosions and fires:**

*Avoid a brief heating higher than 125 degrees above zero.*

### • **Storage**

**Requirements to be met by storerooms and containers:**

*Store under dry conditions (permissible humidity of 98%) with ambient temperature  $\pm 50$   
Use only containers specifically permitted for this substance/product.*

### • **Further information about storage conditions:**

*Ensure safe keeping, strict stock-taking and permanent possibility to check the availability of each piece.*

## **8 Exposure controls and personal protection**

### • **Additional information about design of technical systems:** No further data; see item 7.

**Components with critical values that require monitoring at the workplace:**

*The mass of the product at the workplace should not exceed the proportion of 100 gr. per 1 cubic meter.*

### • **Additional information:** The lists that were valid during the compilation were used as basis.

### **Personal protective equipment**

#### • **General protective and hygienic measures**

*The usual precautionary measures should be adhered as to item 6.*

#### • **Breathing equipment:**

*No special equipment for breathing protection is required.*

#### • **Protection of hands:** Protective gloves.

**Material of gloves:**

*The selection of the suitable gloves does not depend on the product, but only on further marks of quality and varies from manufacturer.*

#### • **Eye protection:** No equipment is required

#### • **Body protection:** Protective work clothing.

(Contd. on page 3)



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(Contd. of page 2)

### 9 Physical and chemical properties:

- **General Information**

**Form:** Solid.  
**Color:** Taupe.  
**Smell:** No smell

- **Change in condition: Melting point/Melting range; Boiling point/Boiling range:** Not determined.

- **Flash point:** 400 degrees above zero

- **Self- inflammability:** Product is not self-igniting.

- **Danger of explosion:** Product is not explosive.

- **Density:** 1.7-2.0 gr. per cubic centimeter.

- **Solubility in /Miscibility with Water:** Insoluble

- **Solvent content:**  
**Organic solvents:** 0.0%

- **Solids content:** 100.0%

### 10 Stability and reactivity

- **Thermal decomposition /conditions to be avoided:**

No decomposition if used according to the specifications.

- **Materials to be avoided:** Reacts with solvents like acetone.

- **Dangerous reactions:**

Dangerous reactions are not known.

- **Dangerous products of composition:** No dangerous decomposition products are known.

### 11 Toxicological information

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** Irritant effect possible.

- **Sensitization:** No sensitizing effect known.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the EC Directives and the Ordinance on Hazardous Materials (GefStaffV).

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

(Contd. on page 4)



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(Contd. of page 3)

## **12 Ecological information**

- **General notes:**

*Environment-friendly.*

*O.D.P. = 0*

*A.L.T. = Low*

*G.W.P. = 0*

## **13 Disposal considerations**

- **Product:**

- **Recommendation**

*Should be disposed separately from materials of other kinds.*

*Disposal must be made according to the local authority regulations for inflammable materials.*

- **Packaging:**

- **Recommendation:**

*There can not be contaminated packaging. The packaging can be recycled without cleaning.*

## **14 Transport information**

*Can be transported by various transport means as dangerous goods of 4.1 class.*

## **15 Regulatory information**

- **Designation according to EC guidelines:**

*The product is not the subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).*

- **National regulations:** *if exist.*

- **Water hazard class:** *The product is not hazardous for water.*

## **16 Other information:**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing data specification sheet:** *Scientific department.*

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