



## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : Eversafe Dry Powder Stored Pressure Type Portable Fire Extinguisher EED-1, EED-2, EED-2h, EED-3, EED-4N, EED-6, EED-9, EED-12 (Fire Extinguisher Agent)  
Manufacturer/ Supplier : Eversafe Extinguisher Sdn Bhd  
Address : Lot 878, Jalan Subang 9, Taman Perindustrian Subang, 47500 Subang Jaya, Selangor Darul Ehsan, Malaysia  
Phone Number : +60 3 8024 9898  
Website : [www.eversafe.net](http://www.eversafe.net)  
Date of MSDS Issued : 09 November 2012  
MSDS Number : QA-MSDS-12 (R3)

## 2. COMPOSITION / INFORMATION ON THE COMPONENTS

### Component Name

a. Extinguishing Agent: Dry Chemical Powder

Chemical name	CAS no.	Content %
Mono Ammonium Phosphate	7722-76-1	42.0 ± 2.0
Ammonium Sulphate	7783-20-2	46.0 ± 2.0
Mica	12001-26-2	< 5.0
Methyl H Polysuloxane	63148-57-2	< 1.0

b. Propellant: Nitrogen, compressed gas  
CAS Number: 7727-37-9  
Percentage: 100

## 3. HAZARD IDENTIFICATION

### Extinguishing Media

Non hazardous powder

### Propellant

Compressed gas, in high concentrations may cause asphyxiation

## 4. FIRST AID MEASURES

### Extinguishing Media

After inhalation – Supply fresh air; consult doctor in case of symptoms.

After skin contact – The product is not skin irritating.

After eye contact – Rinse opened eye for several minutes under running water.

After swallowing – In case of persistent symptoms consult doctor.

### Propellant

Inhalation- If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

Skin contact - Wash exposed skin with soap and water.

Eye contact – Flush eyes with plenty of water.

Ingestion – If a large amount is swallowed, get medical attention.

## 5. FIRE FIGHTING MEASURES

### Extinguishing Media

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a blaze. Keep pressurized extinguishers and surroundings cool with water spray as they may rupture or burst in the heat of a fire.

### Unusual Fire and Explosion Hazards

Pressurized containers may explode in heat of fire.

### Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Extinguishing Media

Sweep up or vacuum. Prevent skin and eye contact. Wear appropriate Protective equipment.

### Propellant

Evacuate all personnel from affected area. Ensure adequate air ventilation.

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## 7. HANDLING AND STORAGE

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Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll extinguisher. Do not drop extinguisher or permit them to strike against each other. Never apply flame or localized heat directly to any part of the extinguisher. Store pressurized extinguishers away from high heat sources. Storage area should be cool, dry, well ventilated, under cover and out of direct sunlight.

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## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

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### Extinguishing Media

Installation and precautions to advise: In case of regularly use it is recommended to install a dust aspirator system.

Supervision check: N/A

Type of people protection: The usual precautionary measures should be adhered to in handling chemicals.

### Propellant

Ensure adequate ventilation.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Properties	EED-1	EED-2	EED-2h	EED-3
Fire Class	A, B, C + Electrical	A, B, C + Electrical	A, B, C + Electrical	A, B, C + Electrical
Fire Rating	5A:34B	13A:55B	13A:70B	13A:89B
Temperature Range	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Discharge Time	9 sec approx	15 sec approx	13 sec approx	15 sec approx
Effective Range	2m approx	2.5m approx	2.5m approx	4m approx
Working Pressure	12 Bar @ 20°C	12 Bar @ 20°C	12 Bar @ 20°C	12 Bar @ 20°C
Test Pressure	25 Bar	25 Bar	25 Bar	25 Bar
Burst Pressure	>69 Bar	>69 Bar	>69 Bar	>69 Bar

Properties	EED-4N	EED-6	EED-9	EED-12
Fire Class	A, B, C + Electrical	A, B, C + Electrical	A, B, C + Electrical	A, B, C + Electrical
Fire Rating	21A:113B	43A:233B	43A:233B	43A:233B
Temperature Range	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Discharge Time	20 sec approx	19 sec approx	22 sec approx	30 sec approx
Effective Range	5m approx	5m approx	7m approx	7m approx
Working Pressure	12 Bar @ 20°C	12 Bar @ 20°C	12 Bar @ 20°C	12 Bar @ 20°C
Test Pressure	25 Bar	25 Bar	25 Bar	25 Bar
Burst Pressure	>69 Bar	>69 Bar	>69 Bar	>69 Bar

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## 10. STABILITY AND REACTIVITY

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### Stability

Stable under normal conditions.

**Conditions to Avoid**

Heat – High temperature, exposure to direct sunlight

**Materials to Avoid**

Strong oxidizing agents, strong acids, sodium hypochlorite.

**Hazardous Polymerization**

Will not occur

**Hazardous Decomposition Products**

Thermal decomposition may yield oxides of carbon, ammonia, oxides of phosphorus, nitrogen oxides and smoke.

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**11. TOXICOLOGICAL INFORMATION**

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**Extinguishing Media**

Eye contact: Minor irritant. Possibility of transient irritation.

No chronic effect known.

No classification.

**Propellant**

Low concentrations cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.

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**12. ECOLOGICAL INFORMATION**

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**Extinguishing Agent: Dry Chemical Powder**

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

**Mobility**

No relevant studies identified.

**Persistence/ Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

No relevant studies identified

**Global Warming Potential (GWP)**

The extinguishing media is completely non volatile and therefore, its GWP is zero.

**Ozone-Depleting Substances (ODS)**

The extinguishing media contains no ozone-depleting substance.

**Propellant: Nitrogen****Mobility**

No relevant studies identified.

**Persistence/ Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

No relevant studies identified

**Global Warming Potential (GWP)**

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**Ozone-Depleting Substances (ODS)**

The extinguishing media contains no ozone-depleting substance.

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**13. DISPOSAL**

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Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container. No harm to the environment is expected from this preparation.

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**14. TRANSPORT INFORMATION**

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UN Proper Shipping Name	Fire extinguisher with compressed or liquified gas
UN Class	2.2
UN Number	1044
Flash Point	+0.0/CEL

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**15. REGULATORY INFORMATION**

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Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals

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

National regulations

Water hazard class: Water hazard class 1 (self-assessment): slightly hazardous for water.

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**16. OTHER INFORMATION**

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These products are designed, manufactured and tested in accordance with requirements of BS EN3. These products are also conforming to type as required by EC Pressure Equipment Directive PED 97/23/EC (CE Mark), EC Marine Equipment Directive MED 96/98/EC (Wheel Mark) and Kite Mark.

The information contained herein is based on data believed to be accurate. However, no representation, warranty, or guarantee is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for its own particular use. Eversafe Extinguisher Sdn. Bhd. assumes no responsibility for personal injury or property damage resulting from use, handling or from contact with this product.

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