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
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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS no.</th>
<th>Content %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mono Ammonium Phosphate</td>
<td>7722-76-1</td>
<td>42.0 ± 2.0</td>
</tr>
<tr>
<td>Ammonium Sulphate</td>
<td>7783-20-2</td>
<td>46.0 ± 2.0</td>
</tr>
<tr>
<td>Mica</td>
<td>12001-26-2</td>
<td>&lt; 5.0</td>
</tr>
<tr>
<td>Methyl H Polysuloxane</td>
<td>63148-57-2</td>
<td>&lt; 1.0</td>
</tr>
</tbody>
</table>

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.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

<table>
<thead>
<tr>
<th>Properties</th>
<th>EED-4N</th>
<th>EED-6</th>
<th>EED-9</th>
<th>EED-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Class</td>
<td>A, B, C + Electrical</td>
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</tr>
<tr>
<td>Discharge Time</td>
<td>20 sec approx</td>
<td>19 sec approx</td>
<td>22 sec approx</td>
<td>30 sec approx</td>
</tr>
<tr>
<td>Effective Range</td>
<td>5m approx</td>
<td>5m approx</td>
<td>7m approx</td>
<td>7m approx</td>
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10. STABILITY AND REACTIVITY

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

**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

**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)
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.

13. DISPOSAL

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.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>UN Proper Shipping Name</th>
<th>Fire extinguisher with compressed or liquified gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN Class</td>
<td>2.2</td>
</tr>
<tr>
<td>UN Number</td>
<td>1044</td>
</tr>
<tr>
<td>Flash Point</td>
<td>+0.0/CEL</td>
</tr>
</tbody>
</table>

15. REGULATORY INFORMATION

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.

16. OTHER INFORMATION

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.