1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Eversafe Water Cartridge Operated Type Portable Fire Extinguisher EEW-6cs, EEW-9cs (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: 19 August 2015
MSDS Number: QA-MSDS-14 (R4)

2. COMPOSITION / INFORMATION ON THE COMPONENTS

Component Name
a. Extinguisher Agent: Tap Water
b. Propellant: CO2 Cartridge, Carbon Dioxide
   CAS Number: 124-38-9
   Percentage: 99.0%

3. HAZARD IDENTIFICATION

Extinguisher Media
Under OSHA's Hazard Communication Standard (29 CFR 1910.1200) a chemical mixture is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% of more of a carcinogen. Since this product does not contain hazardous material in excess of these amounts, no specific Material Safety Data Sheet (MSDS) is required.

Propellant
Compressed gas. High concentration may cause asphyxia. Contact with liquid product may cause frostbite or burns. Contact with eye may cause damage. Refer to MSDS-TPED CART for hazards identification in details.

Emergency Overview - Carbon Dioxide is colorless. At low concentrations, the gas is odorless. At higher concentrations it has a sharp, acidic odor. It will act as an asphyxiant and an irritant. Carbon Dioxide is a powerful cerebral dilator. At concentrations between 2 and 10%, Carbon Dioxide can cause nausea, dizziness, headache, mental confusion, increased blood pressure and respiratory rate. Above 8% nausea and vomiting appear. Above 10%, suffocation and death can occur within minutes.

Contact with the cold gas can cause freezing of exposed tissue. Moisture in the air can lead to formation of carbonic acid that can irritate the eyes. All forms of Carbon Dioxide are noncombustible.

Carbon Dioxide is heavier than air and should not be allowed to accumulate in low lying areas.

Inhalation - May cause rapid respiration, muscular incoordination, fatigue, nausea and vomiting and unconsciousness.

Ingestion - No information found.

Skin - Pressure drop through valves and piping may cause extreme cold and frostbite on contact.

Eye Contact - No information found.

Chronic Exposure - No information found.
4. **FIRST AID MEASURES**

   **Inhalation** – Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen and get medical attention.

   **Ingestion** – No information found.

   **Skin** – If frostbite occurs, flush affected areas with lukewarm water. Do not use hot water. Get medical attention.

   **Eyes** – No information found.

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**

   Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in container or container valve, contact the appropriate emergency rescue.

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 and plastic parts 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**
   Nil.

   **Propellant**
   **Respiratory Protection**
   Positive pressure air line with full-face mask and escape bottle or self-contained breathing apparatus should be available for emergency use.

   **Eye Protection**
   Safety goggles as appropriate for the job. A face shield is recommended for handling cryogenic liquids.

   **Skin Protection**
   Protective gloves of any material appropriate for the job. Insulated gloves are recommended for cryogenic liquids.

   **Other/ General Protection**
   Safety shoes.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Properties</th>
<th>EEW-6cs</th>
<th>EEW-9cs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class of Fire</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Rating of Fire</td>
<td>13A</td>
<td>21A</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>+5°C to +60°C</td>
<td>+5°C to +60°C</td>
</tr>
<tr>
<td>Discharge Time</td>
<td>32 sec approx.</td>
<td>60 sec approx.</td>
</tr>
<tr>
<td>Discharge Range</td>
<td>4 m approx.</td>
<td>6 m approx.</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>12 Bar @ 20°C</td>
<td>12 Bar @ 20°C</td>
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<tr>
<td>Test Pressure</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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</tbody>
</table>

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.

11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

**Extinguishing Agent:** Water
Nil

**Propellant:** Carbon Dioxide
When discharged in large quantities may contribute to the greenhouse effect.
No relevant studies identified.

**Global Warming Potential (GWP)**
1

**Ozone-Depleting Substances (ODS)**
None.

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>Description</th>
<th>Details</th>
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<tbody>
<tr>
<td>UN Proper Shipping Name</td>
<td>Fire extinguisher with compressed or liquified gas</td>
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<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>
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</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 EN 3. 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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