1. **PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Eversafe Dry Powder Stored Pressure Type Mobile Fire Extinguisher

MPM-25 & MPM-50 (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: 10 October 2013

MSDS Number: QA-MSDS-27 (R3)

2. **COMPOSITION / INFORMATION ON THE COMPONENTS**

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Material</th>
<th>Reference Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extinguisher Agent</td>
<td>Dry Chemical Powder</td>
<td>MSDS-AB-C40 EP4X</td>
</tr>
<tr>
<td>Propellant</td>
<td>Nitrogen</td>
<td>MSDS-N2 NIG</td>
</tr>
</tbody>
</table>

3. **HAZARD IDENTIFICATION**

Non hazardous powder

Compressed gas, in high concentrations may cause asphyxiation

4. **FIRST AID MEASURES**

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.

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**

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

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

Respiratory Protection
Not normally required. Use dust mask where dustiness is prevalent.

Eye Protection
Chemical goggles or safety glasses with side shields.

Hand Protection
Not normally needed when used as a portable fire extinguisher. Use gloves if irritation occurs.

Body Protection
Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th></th>
<th>MPM-25</th>
<th>MPM-50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>MPM-25</td>
<td>MPM-50</td>
</tr>
<tr>
<td>Class of Fire</td>
<td>A, B, C + Electrical</td>
<td>A, B, C + Electrical</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>A IB C</td>
<td>A IIIB C</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>-20°C to +60°C</td>
<td>-20°C to +60°C</td>
</tr>
<tr>
<td>Discharge Time</td>
<td>40s approx</td>
<td>55s approx</td>
</tr>
<tr>
<td>Effective Range</td>
<td>9m approx</td>
<td>10m approx</td>
</tr>
<tr>
<td>Discharge %</td>
<td>&gt;85%</td>
<td>&gt;85%</td>
</tr>
<tr>
<td>Working Pressure</td>
<td>12-15 Bar</td>
<td>12-15 Bar</td>
</tr>
<tr>
<td>Test Pressure</td>
<td>21.5 Bar</td>
<td>21.5 Bar</td>
</tr>
<tr>
<td>Burst Pressure</td>
<td>&gt;55 Bar</td>
<td>&gt;55 Bar</td>
</tr>
</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

Acute Toxicity
Low order of acute toxicity.

Chronic Toxicity/ Carcinogenicity
This product is not expected to cause long term adverse health effects.

Genotoxicity
This product is not expected to cause any mutagenic effects.

Reproductive/ Developmental Toxicity
This product is not expected to cause adverse reproductive effects.
12. ECOLOGICAL INFORMATION

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

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

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 BS EN 1866. 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.
Material Safety Data Sheet

1) Product Name: ABC Dry Chemical Powder

2) Use: Dry chemical fire fighting agent

3) Identification of the companies
Suzhou Wuyue Synthetic Chemical Factory
Mudu Town, Suzhou City, Jiangsu Province, China
Tel: 0086-0512-66360365/66262314
Fax: 0086-0512-66262360
E-mail: public@wyhc.szbnet.com

4) Composition and ingredient information

<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 Polysiloxane</td>
<td>63148-57-2</td>
<td>&lt;LO</td>
</tr>
</tbody>
</table>

5) Identification of the hazards for people and environment
This product is not hazardous if used for the reason it has been developed.
Can slightly irritate the eyes.
Can irritate the respiratory tract To consider as dust.

6) First Aid Measures

<table>
<thead>
<tr>
<th>Eyes</th>
<th>There might be a slight irritation which fades soon. Irrigate with water or eye wash solution.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin</td>
<td>Wash off with water and soap. No serious effect</td>
</tr>
<tr>
<td>Inhalation</td>
<td>If inhaled- remove to fresh air. No serious effect</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Wash mouth with water and give plenty of water to drink Induce vomiting.</td>
</tr>
</tbody>
</table>

7) Fire Fighting Measure
It is an extinguishing agent No special measures required.

8) Accidental Release Measures

<table>
<thead>
<tr>
<th>People precautions:</th>
<th>If the powder leakage is consequent, use a dust mask and gloves.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precautions of the environment:</td>
<td>Do not evacuate through sewers.</td>
</tr>
<tr>
<td>Cleaning methods:</td>
<td>Sweep up or use a vacuum cleaner.</td>
</tr>
</tbody>
</table>

9) Handling and Storage

<table>
<thead>
<tr>
<th>Handling Precautions:</th>
<th>Dry, cool, absence of vibration. Avoid production of dust.</th>
</tr>
</thead>
<tbody>
<tr>
<td>When the powder passes through plastic pipes electrostatic charge can occur.</td>
<td></td>
</tr>
<tr>
<td>Storage precautions:</td>
<td>no danger.</td>
</tr>
</tbody>
</table>

10) Exposure Controls and Personal Protection

<table>
<thead>
<tr>
<th>Installation and precautions to advice:</th>
<th>In case of regularly use it is recommended to install a dust aspirator system.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervision check:</td>
<td>N /A</td>
</tr>
<tr>
<td>Type of people protection:</td>
<td>The usual precautionary measures should be adhered to in handing chemicals.</td>
</tr>
<tr>
<td></td>
<td>Gloves and goggles may be used.</td>
</tr>
</tbody>
</table>

11) Physical and Chemical properties
Form: Powder
Odor: None
Dye: Yellow
Melting point: >100°C
Flame point: N/A
Solubility in Water: >90% after several hours

12) Stability and Reactivity
   Conditions to avoid: Humidity
   Substance to avoid: Strongly caustic material
   Hazardous decomposition products: Ammonia (>100°C)
   In case of use of the material on fire, the odour of NH₃ is difficult to notice.

13) Toxicological Information
   Eye contact: Minor irritant. Possibility of transient irritation.
   No chronic effect known.
   No classification.

14) Ecological Information
   Not hazardous.
   Contains no heavy metal salts.
   ABC dry chemical powder contains mono-ammonium phosphate which is a soil fertilizer.

15) Disposal Considerations
   Recovery: By brushing and aspiration.
   Neutralisation: Not necessary.
   Disposal: Normally as fertilizer through an approved specialized company according to local and current authority regulations. European disposal No. 160 502
   To avoid: See point 10.
   The European, National, Federal, regional or community rules are to be followed.

16) Transport Information
   No prescriptions.
   International transport information: N/A

17) Complementary General Information
   ABC dry chemical powder is a fire extinguishing agent.
   There is no other purpose allowed. The manufacturer cannot be considered as responsible in case of wrong utilisation or irrelevant use.
   This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product featured and shall not establish a legally valid contractual relationship.
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATHESON TRI-GAS, INC.
150 Allen Road Suite 302
Basking Ridge, New Jersey 07920
Information: 1-800-416-2505

Emergency Contact:
CBEMTREC 1-800-424-9300
Calls Originating Outside the US:
703-527-3887 (Collect Calls Accepted)

SUBSTANCE: NITROGEN, COMPRESSED GAS

TRADE NAMES/SYNONYMS:
MTG MSDS 67; DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2; MAT16625; RTECS QW9700000

CHEMICAL FAMILY: inorganic, gas

CREATION DATE: Jan 24 1989
REVISION DATE: Jan 01 2007

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: NITROGEN, COMPRESSED GAS
CAS NUMBER: 7727-37-9
PERCENTAGE: 100

3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=1  FIRE=0  REACTIVITY=0

EMERGENCY OVERVIEW:
COLOR: colorless
PHYSICAL FORM: gas
ODOR: odorless

MAJOR HEALTH HAZARDS: difficulty breathing
PHYSICAL HAZARDS: Containers may rupture or explode if exposed to heat.

POTENTIAL HEALTH EFFECTS:
INHALATION:
SHORT TERM EXPOSURE: nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma
LONG TERM EXPOSURE: no information is available
SKIN CONTACT:
SHORT TERM EXPOSURE: no information on significant adverse effects
LONG TERM EXPOSURE: no information on significant adverse effects
EYE CONTACT:
SHORT TERM EXPOSURE: irritation
LONG TERM EXPOSURE: no information on significant adverse effects
INGESTION:
SHORT TERM EXPOSURE: ingestion of a gas is unlikely
LONG TERM EXPOSURE: ingestion of a gas is unlikely

4. FIRST AID MEASURES

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.

NOTE TO PHYSICIAN: For inhalation, consider oxygen.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Negligible fire hazard. Pressurized containers may rupture or explode if exposed to sufficient heat.

EXTINGUISHING MEDIA: carbon dioxide, regular dry chemical

Large fires: Use regular foam or flood with fine water spray.

FIRE FIGHTING: Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Use extinguishing agents appropriate for surrounding fire. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Do not get water directly on material. Reduce vapors with water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Consider downwind evacuation if material is leaking.
6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:
Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

7. HANDLING AND STORAGE


8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:
NITROGEN, COMPRESSED GAS:
NITROGEN:
ACGIH (simple asphyxiant)

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Eye protection not required, but recommended.

CLOTHING: Protective clothing is not required.

GLOVES: Protective gloves are not required.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

For Unknown Concentrations or Immediately Dangerous to Life or Health:
Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply.
Any self-contained breathing apparatus with a full facepiece.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: gas
COLOR: colorless
ODOR: odorless
TASTE: tasteless
MOLECULAR WEIGHT: 28.0134
MOLECULAR FORMULA: N2
BOILING POINT: -321 F (-196 C)
FREEZING POINT: -346 F (-210 C)
VAPOR PRESSURE: 760 mmHg @ -196 C
VAPOR DENSITY (air=1): 0.967
SPECIFIC GRAVITY: Not applicable
DENSITY: 1.2506 g/L
WATER SOLUBILITY: 1.6% @ 20 C
PH: Not applicable
VOLATILITY: 100%
ODOR THRESHOLD: Not available
EVAPORATION RATE: Not applicable
VISCOSITY: 0.01787 cP @ 27 C
COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable
SOLVENT SOLUBILITY:
Soluble: liquid ammonia
Slightly Soluble: alcohol

10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID: Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

INCOMPATIBILITIES: Metals, oxidizing materials

HAZARDOUS DECOMPOSITION:
Thermal decomposition products: oxides of nitrogen

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

Not available

12. ECOLOGICAL INFORMATION

Not available
13. DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:
PROPER SHIPPING NAME: Nitrogen, compressed
ID NUMBER: UN1066
HAZARD CLASS OR DIVISION: 2.2
LABELING REQUIREMENTS: 2.2

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:
SHIPPING NAME: Nitrogen, compressed
UN NUMBER: UN1066
CLASS: 2.2

15. REGULATORY INFORMATION

U.S. REGULATIONS:
CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4): Not regulated.
SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):
ACUTE: Yes
CHRONIC: No
FIRE: No
REACTIVE: No
SUDDEN RELEASE: Yes

STATE REGULATIONS:
California Proposition 65: Not regulated.

CANADIAN REGULATIONS:
WHMIS CLASSIFICATION: A.

NATIONAL INVENTORY STATUS:
U.S. INVENTORY (TSCA): Listed on inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CANADA INVENTORY (DSLINDSL): Listed on inventory.

16. OTHER INFORMATION

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