

## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **ABE Powder Extinguisher with Compressed Gas**  
Product Use: Fire Extinguisher  
Restriction of Use: Refer to Section 15

New Zealand Supplier: **Safeworld Limited**  
Address: 17 Fairfax Avenue  
Penrose  
Auckland, 1061

Telephone: +64 9 218 9403  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 23 September 2025

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Gases Under Pressure Mixtures (subsidiary) – HSR002535

#### Pictograms



Signal Word: **Warning**

| GHS Category               | Hazard Code | Hazard Statement                                    |
|----------------------------|-------------|---|
| Compressed Gas             | H280        | Contains gas under pressure; may explode if heated. |
| Acute oral toxicity Cat. 4 | H302        | Harmful if swallowed.                               |
| Eye irritation Cat. 2      | H319        | Causes serious eye irritation.                      |

| Prevention Code | Prevention Statement                                   |
|-----------------|--|
| P102            | Keep out of reach of children.                         |
| P103            | Read label before use.                                 |
| P264            | Wash hands thoroughly after handling.                  |
| P270            | Do not eat, drink or smoke when using this product.    |
| P280            | Wear protective clothing as detailed in SDS Section 8. |

| Response Code | Response Statement   |
|---------------|--|
| P101          | If medical advice is needed, have product container or label at hand.      |
| P330          | Rinse mouth.   |
| P301 + P312   | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |

|                  |  |
|------------------|--|
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337 + P313      | If eye irritation persists: Get medical advice/attention.  |

|                     |  |
|---------------------|--|
| <b>Storage Code</b> | <b>Storage Statement</b>                                 |
| P403                | Store in a well-ventilated place.                        |
| P410 + P403         | Protect from sunlight. Store in a well-ventilated place. |

|                      |  |
|----------------------|--|
| <b>Disposal Code</b> | <b>Disposal Statement</b>                                |
| P501                 | Dispose of according to Local Regulations or Authorities |

### Section 3. Composition / Information on Hazardous Ingredients

| Ingredients                            | Wt%   | CAS NUMBER.              |
|--|-------|--------------------------|
| MAP                                    | 65-75 | 7722-76-1                |
| MAS                                    | ≥5    | 7783-20-2                |
| Silicon Dioxide (silica, white powder) | <3    | 7631-86-9                |
| Talc                                   | <3    | 14807-96-6 or 12001-26-2 |
| Mica                                   | <4    | 12001-26-2               |
| Poly (methylhydrosiloxane)             | <1    | 63148-57-2               |
| Nitrogen                               | <1    | 7727-37-9                |

When in contact with out gushing fire extinguishing agent (powder) irritation may occur in open sores as well as eyes and throat. The fire extinguisher is at 15 bars super pressure. If subjected to high temperatures (over 60°C) the safety device might release (25 bar)

### Section 4. First Aid Measures

Routes of Exposure:

|              |   |
|--------------|---|
| If in Eyes   | Rinse cautiously with water for 15 minutes. If eye irritation persists: Get medical advice.   |
| If on Skin   | Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.  |
| If Swallowed | If patient is conscious, give large amounts of water and induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Seek medical attention if needed. |
| If Inhaled   | Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.  |

#### Most important symptoms and effects, both acute and delayed

Symptoms: When in contact with out gushing fire extinguishing agent (powder) irritation may occur in open sores as well as eyes and throat.

### Section 5. Fire Fighting Measures

|   |                                     |
|---|-------------------------------------|
| <b>Hazard Type</b>                      | Non-Flammable                       |
| <b>Hazards from combustion products</b> | No data available.                  |
| <b>Suitable Extinguishing media</b>     | The product is a fire-extinguisher. |

|   |                       |
|---|-----------------------|
| <b>Precautions for firefighters and special protective clothing</b> | No special measures.  |
| <b>HAZCHEM CODE</b>   | <b>None Allocated</b> |

## Section 6. Accidental Release Measures

### For emergency responders:

Wear protective equipment as detailed in Section 8.

### Environmental precautions:

Keep product away from drains, surface and underground water.

### Methods and material for containment and cleaning up:

Clear up spillage and transfer to a container for recycling or disposal. Vacuum cleaning is recommended to minimise dust formation. Dispose of as per Section 13.

## Section 7. Handling and Storage

### Precautions for Handling & Storage:

- Storage temperature: -30°C -+65°C, dry and free from vibrations.
- Keep away from sodiumhypochlorite (bleach).
- Store in a well-ventilated place.
- Protect from sunlight. Store in a well-ventilated place.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance   | TWA |                   | STEL |                   |
|---|-----|-------------------|------|-------------------|
|   | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Talc (containing no asbestos fibres) [14807-96-6] | -   | 2                 |      |                   |

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15<sup>TH</sup> EDITION.

### Engineering Controls

No special measures.

### Personal Protection Equipment

|                    |  |
|--------------------|--|
| <b>Eyes</b>        | No special measures required.  |
| <b>Skin</b>        | No special measures required but always good practice to wear protective gloves.                               |
| <b>Respiratory</b> | For long term exposure of the powder suitable respiratory protection i.e. dust mask/respirator should be used. |

## Section 9 Physical and Chemical Properties

|                        |                                 |
|------------------------|---------------------------------|
| <b>Appearance</b>      | Not available                   |
| <b>Colour</b>          | Not available                   |
| <b>Odour</b>           | Not available                   |
| <b>Odour Threshold</b> | Not available                   |
| <b>pH</b>              | 4,5 in 5% water-based solution. |
| <b>Boiling Point</b>   | Not available                   |

Product Name: ABE Powder Extinguisher with Compressed Gas  
Date of SDS: 23 September 2025

SDS Prepared by: TCC (NZ) Ltd  
Tel: 64 9 475 5240 www.techcomp.co.nz

|   |  |
|---|--|
| <b>Melting Point</b>                    | Not available  |
| <b>Freezing Point</b>                   | Not available  |
| <b>Flash Point</b>                      | Not available  |
| <b>Flammability</b>                     | Not flammable  |
| <b>Upper and Lower Explosive Limits</b> | Not available  |
| <b>Vapour Pressure</b>                  | Not available  |
| <b>Vapour Density</b>                   | Not available  |
| <b>Density</b>                          | 1,3 (fire extinguishing agent)   |
| <b>Water Solubility</b>                 | Fire extinguishing agent is soluble in water but the silicon makes the process slow. |
| <b>Partition Coefficient:</b>           | Not available  |
| <b>Auto-ignition Temperature</b>        | Not available  |
| <b>Decomposition Temperature</b>        | Not available  |
| <b>Kinematic Viscosity</b>              | Not available  |
| <b>Breaks down</b>                      | At 197°C in flame zone (fire extinguishing agent).                                   |

## Section 10. Stability and Reactivity

|   |   |
|---|---|
| <b>Stability of Substance</b>             | This product is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | If the powder becomes damp or hard it is no longer suitable for firefighting. The fire extinguishing agent frees ammonium when reacting with alkalis. |
| <b>Conditions to Avoid</b>                | Not available   |
| <b>Incompatible Materials</b>             | Corrosive with water.   |
| <b>Hazardous Decomposition Products</b>   | Not available   |

## Section 11 Toxicological Information

### Acute Effects:

|                   |  |
|-------------------|--|
| <b>Swallowed</b>  | Harmful if swallowed.  |
| <b>Dermal</b>     | This product is not classified as acutely toxic.             |
| <b>Inhalation</b> | This product is not classified as acutely toxic.             |
| <b>Eye</b>        | Causes serious eye irritation.                               |
| <b>Skin</b>       | This product is not classified as a skin irritant/corrosive. |

### Chronic Effects:

|                               |   |
|-------------------------------|---|
| <b>Carcinogenicity</b>        | This product is not classified as carcinogenic.           |
| <b>Reproductive Toxicity</b>  | This product is not classified as toxic for reproduction. |
| <b>Germ Cell Mutagenicity</b> | This product is not classified as mutagenic.              |
| <b>Aspiration</b>             | This product is not classified as Asp Tox.                |
| <b>STOT/SE</b>                | This product is not classified as STOT SE.                |
| <b>STOT/RE</b>                | This product is not classified as STOT RE.                |

## Section 12. Ecotoxicological Information

The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Product:</b>                      |                   |
| <b>Persistence and degradability</b> | No data available |
| <b>Bioaccumulation</b>               | No data available |

|                              |  |
|------------------------------|--|
| <b>Mobility in Soil</b>      | No data available  |
| <b>Other adverse effects</b> | As the fire extinguishing agent is soluble in water it can cause a lowering of pH-value if released into the water ways. Contact the proper authorities when spillage of large quantities. Note: Ammonium salts and phosphates acts as fertilizers for plants. |

### Section 13. Disposal Considerations

#### Disposal Method:

Dispose of superfluous powder and used cans in accordance with local and regional regulations. Do not dispose with alkalis.

**Precautions or methods to avoid:** Avoid release to the environment.

### Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021**



#### Road, Rail, Sea and Air Transport

|                             |  |
|-----------------------------|--|
| <b>UN No</b>                | 1044   |
| <b>Class - Primary</b>      | 2.2  |
| <b>Proper Shipping Name</b> | FIRE EXTINGUISHERS CONTAINING COMPRESSED GAS |
| <b>Marine Pollutant</b>     | No   |
| <b>Special Provisions</b>   | 225, 594                                     |

### Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Gases Under Pressure Mixtures (subsidiary) – HSR002535

GHS Classification:

| <b>HSW (HS) Regulations 2017 and EPA Notices</b> | <b>Trigger Quantity</b>            |
|--|------------------------------------|
| Certified Handler                                | Not required                       |
| Location Certificate                             | Not required                       |
| Tracking Trigger Quantities                      | Not required                       |
| Signage Trigger Quantities                       | 10 000 kg                          |
| Emergency Response Plan                          | 10 000 kg                          |
| Secondary Containment                            | Not required                       |
| Restriction of Use                               | Only use for the intended purpose. |

### Section 16 Other Information

#### Glossary

|                  |   |
|------------------|---|
| Cat              | Category  |
| EC <sub>50</sub> | Median effective concentration.                               |
| EEL              | Environmental Exposure Limit.                                 |
| EPA              | Environmental Protection Authority                            |
| HSNO             | Hazardous Substances and New Organisms.                       |
| HSW              | Health and Safety at Work.                                    |
| LC <sub>50</sub> | Lethal concentration that will kill 50% of the test organisms |

|                  |   |
|------------------|---|
| LD <sub>50</sub> | inhaling or ingesting it.   |
| LEL              | Lethal dose to kill 50% of test animals/organisms.                    |
| OSHA             | Lower explosive level.  |
| TEL              | American Occupational Safety and Health Administration.               |
| TLV              | Tolerable Exposure Limit.   |
| UEL              | Threshold Limit Value-an exposure limit set by responsible authority. |
| WES              | Upper Explosive Level   |
|                  | Workplace Exposure Limit  |

#### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Feb 2025 15<sup>th</sup> edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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