

## SAFETY DATA SHEET

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

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

Product: **Flamefighter ABE Extinguisher**  
 Other means of Identification: 8409 Flamefighter 0.3kg ABE Dry Powder  
 8425 Flamefighter 1kg ABE Dry Powder  
 8411 Flamefighter 1.5kg ABE Dry Powder  
 8412 Flamefighter 2kg ABE Dry Powder  
 8413 Flamefighter 2.5kg ABE Dry Powder  
 8414 Flamefighter 4.5kg ABE Dry Powder  
 8415 Flamefighter 6kg ABE Dry Powder  
 8416 Flamefighter 9kg ABE Dry Powder

Product Use: Fire Extinguishing Agent  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **PSL Fire & Safety**  
 Address: 10 Akatea Rd,  
 Glendene  
 Auckland 0602

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 Fax: +64 9 818 4484  
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**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS: 20 March 2019

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

**EPA Approval No: Fire Fighting Chemicals – HSR002573**

#### Pictograms



Irritant

Signal Word: **Warning**

| HSNO Classification                       | Hazard Code | Hazard Statement | GHS Category |
|---|-------------|------------------|--------------|
| Gases under pressure<br>- compressed gas. | -           | -                | -            |

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|      |      |                                |                 |
|------|------|--------------------------------|-----------------|
| 6.3A | H315 | Causes skin irritation.        | Skin Irrit. 2   |
| 6.4A | H319 | Causes serious eye irritation. | Eye Irrit. 2A   |
| 9.1D | H401 | Toxic to aquatic life.         | Aquatic Acute 2 |

| Prevention Code | Prevention Statement   |
|-----------------|--|
| P103            | Read label before use.                                       |
| P264            | Wash hands thoroughly after handling.                        |
| P273            | Avoid release to the environment.                            |
| P280            | Wear personal protective equipment as detailed in Section 8. |

| Response Code    | Response Statement   |
|------------------|--|
| P362             | Take off contaminated clothing and wash before re-use.   |
| P302 + P352      | IF ON SKIN: Wash with plenty of soap and water.  |
| P305 + P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332 + P313      | If skin irritation occurs: Get medical advice/ attention.  |
| P337 + P313      | If eye irritation persists: Get medical advice/attention.  |

| Storage Code   | Storage Statement |
|----------------|-------------------|
| None allocated |                   |

| Disposal Code | Disposal Statement                                       |
|---------------|--|
| P501          | Dispose of according to Local Regulations or Authorities |

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

| Ingredients             | Wt%      | CAS NUMBER. |
|-------------------------|----------|-------------|
| Mono ammonium phosphate | 20-90    | 7722-76-1   |
| Ammonium Sulfate        | 5-60     | 7783-20-2   |
| Silicon dioxide         | <0.3     | 112926-00-8 |
| Nitrogen                | n/a, GAS | 7727-37-9   |

### Section 4. First Aid Measures

Routes of Exposure:

- If in Eyes                      Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
- If on Skin                        Remove contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
- If Swallowed                    Wash out mouth thoroughly with water. 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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

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

Symptoms:

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|                    |                              |
|--------------------|------------------------------|
| <b>Ingestion:</b>  | Not applicable               |
| <b>Inhalation:</b> | Not applicable               |
| <b>Skin:</b>       | Causes skin irritation       |
| <b>Eye:</b>        | Causes severe eye irritation |
| <b>Chronic:</b>    | Not applicable               |

## Section 5. Fire Fighting Measures

|   |   |
|---|---|
| <b>Hazard Type</b>  | Non Flammable   |
| <b>Hazards from decomposition products</b>                          | Ammonia and / or phosphorous oxides can be evolved at very high temperatures. Exposure to fire may cause containers to rupture / explode.   |
| <b>Suitable Extinguishing media</b>                                 | Product is an extinguishing agent, use appropriate fire extinguisher for surrounding environment.   |
| <b>Precautions for firefighters and special protective clothing</b> | Fire fighters should wear self-contained breathing apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Avoid eye and skin contact. In case of fire the product may be violently or explosively reactive. If safe to do so, remove containers from path of fire. Keep containers and fire-exposed surfaces cool with water spray. This product should be prevented from entering drains and watercourses. |
| <b>HAZCHEM CODE</b>   | <b>None Allocated</b>   |

## Section 6. Accidental Release Measures

Avoid contact with eyes and skin. Wear PPE as detailed in Section 8. Evacuate all unnecessary personnel.

If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

If possible contain the spill. Sweep or vacuum up contents and place in sealed labelled container for disposal. Dispose of waste according to the applicable local and national regulations.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.
- Avoid inhalation of dust and skin or eye contact.
- Use only in a well ventilated area.
- Keep containers sealed when not in use.
- Prevent the build-up of dust in the work atmosphere.
- Avoid release to the environment.
- Wear personal protective equipment as detailed in Section 8.

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Always store in dry, cool area out of direct sunlight in original container with lid tightly closed.
- Keep containers closed when not in use.
- Do not allow any part of a cylinder to be exposed above 50°C.
- Storage areas should be kept clean and free from flammable materials.
- Ensure that containers are properly vented to prevent build up of pressure.

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

| Substance            | TWA |                   | STEL |                   |
|----------------------|-----|-------------------|------|-------------------|
|                      | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Nitrogen [7727-37-9] |     |                   |      | Simple asphyxiant |

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 NOV 2017 9TH EDITION.

**Engineering Controls**

Use with good general ventilation. If solids / dusts are produced, local exhaust ventilation should be used. Systems under pressure should be regularly checked for leakages.

**Personal Protection Equipment**

|                    |   |
|--------------------|---|
| <b>Eyes</b>        | Use approved safety goggles or face shield. Avoid wearing contact lenses. |
| <b>Skin</b>        | Wear chemical resistant gloves.   |
| <b>Respiratory</b> | Wear a dust mask.   |

**Section 9****Physical and Chemical Properties**

|   |   |
|---|---|
| <b>Appearance</b>                       | Powder (solid)  |
| <b>Colour</b>                           | Blue  |
| <b>Odour</b>                            | None  |
| <b>Odour Threshold</b>                  | Odour threshold is subjective and inadequate to warn for over exposure. |
| <b>pH</b>                               | Not available   |
| <b>Boiling Point</b>                    | Not available   |
| <b>Melting Point</b>                    | Not available   |
| <b>Freezing Point</b>                   | Not available   |
| <b>Flash Point</b>                      | Not available   |
| <b>Flammability</b>                     | Not available   |
| <b>Upper and Lower Explosive Limits</b> | Not available   |
| <b>Vapour Pressure</b>                  | Not available   |
| <b>Density</b>                          | Not available   |
| <b>Specific Gravity</b>                 | Not available   |
| <b>Solubility</b>                       | Not available   |
| <b>Partition Coefficient:</b>           | Not available   |
| <b>Auto-ignition Temperature</b>        | Not available   |
| <b>Decomposition Temperature</b>        | Not available   |
| <b>Viscosity, kinematic</b>             | Not available   |
| <b>Particle Characteristics</b>         | Not available   |
| <b>Other information</b>                | Stability in temperature - 45 °C ~ +60 °C                               |

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## Section 10. Stability and Reactivity

|   |   |
|---|---|
| <b>Stability of Substance</b>           | This product is stable under normal conditions.                             |
| <b>Conditions to Avoid</b>              | Extremes of temperature and direct sunlight.                                |
| <b>Incompatible Materials</b>           | None  |
| <b>Hazardous Decomposition Products</b> | Ammonia and or Phosphorous oxides can be evolved at very high temperatures. |

## Section 11 Toxicological Information

### Acute Effects:

|                   |   |
|-------------------|---|
| <b>Swallowed</b>  | Not an expected route of entry, however, ingestion may cause irritation.  |
| <b>Dermal</b>     | Not applicable.   |
| <b>Inhalation</b> | Not an adverse effect however, treat as mineral dust, Irritant to the respiratory tract. Transient cough and shortness of breath may occur. |
| <b>Eye</b>        | Causes serious eye irritation.  |
| <b>Skin</b>       | Causes skin irritation.   |

### Chronic Effects:

|                               |   |
|-------------------------------|---|
| <b>Carcinogenicity</b>        | Not applicable.                               |
| <b>Reproductive Toxicity</b>  | Not applicable.                               |
| <b>Germ Cell Mutagenicity</b> | Not applicable.                               |
| <b>Aspiration</b>             | Not applicable.                               |
| <b>STOT/SE</b>                | Not applicable.                               |
| <b>STOT/RE</b>                | Chronic fibrosis of the lung, pneumoconiosis. |

## Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Toxic to aquatic life.

|                                      |   |
|--------------------------------------|---|
| <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>         | Prevent these material entering waterways, drains and sewers. |

### Ammonium Sulfate (Cas No 7783-20-2)

Classification route species:

(fish)

#### Classification key study:

SPECIES: Catla catla

TYPE OF EXPOSURE:

DURATION: 96 hr

ENDPOINT: LC50

VALUE: 48 mg/l

REFERENCE SOURCE: BASF AG Ludwigshafen (36) Konar S.K. and Sarkar S.K.: Geobis 10, 6-9, (1983). [IUCLID 2000]

Biocumulative: No

Rapidly Degradable: Yes

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**Classification route species:**  
(crustacean)

**Classification key study:**

SPECIES: Crangon crangon (Crustacea)

TYPE OF EXPOSURE:

DURATION: 96 hr

ENDPOINT: EC50

VALUE: 81 - 130 mg/l

REFERENCE SOURCE: BASF AG Ludwigshafen Salzwasser (47) Franklin, F.L.: Min. Agric., Fish. Food, Tech. Rep. No.61, Lowestoft, UK, 8 p., (1980). [IUCLID 2000]

Biocumulative: No

Rapidly Degradable: Yes

**Section 13. Disposal Considerations**

**Disposal Method:** Triple rinse and dispose of according to Local regulations.

**Precautions or methods to avoid:** Do not allow to enter waterways.

**Section 14 Transport Information**

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**



**Road, Rail, Sea and Air Transport**

|                             |  |
|-----------------------------|--|
| <b>UN No</b>                | 1044   |
| <b>Class - Primary</b>      | 2.2  |
| <b>Packing Group</b>        | N/A  |
| <b>Proper Shipping Name</b> | <b>FIRE EXTINGUISHERS WITH COMPRESSED OR LIQUEFIED GAS</b>   |
| <b>Marine Pollutant</b>     | No   |
| <b>Special Provisions</b>   | If the product's individual container is below 500ml, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG. |

**Section 15 Regulatory Information**

This substance is classified as hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Fire Fighting Chemicals – HSR002573

HSNO Classification: 6.3A, 6.4A, 9.1D

| <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                       | Not required            |
| Emergency Response Plan                          | Not required            |
| Secondary Containment                            | Not required            |

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**Section 16 Other Information****Glossary**

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

**References:**

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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Please contact PSL Fire & Safety, if further information is required.

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