

Section 1 - Identification of the Material and Supplier

Supplier	Newfield Group, 42 Izone Drive, Rolleston 7614 Phone: 03 348 0799
Product Name	ORCA™ 1KG ABE FIRE EXTINGUISHER
Other Names	ABE85% powder fire extinguisher
Recommended Uses	Extinguishing fires
Creation Date	July 2019
This Version Issued	July 2019 and is valid for 5 years from this date

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

Gases under pressure - compressed gas
6.3A
6.4A
9.1D

Hazard Code	Hazard Statement	GHS Category
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H315	Causes skin irritation	Skin Irrit. 2
H319	Causes serious eye irritation	Eye Irrit. 2A
H401	Toxic to aquatic life	Aquatic Acute 2

Prevention Code

P103
P264
P273
P280

Prevention Statement

Read label before use
Wash hands thoroughly after handling
Avoid release to the environment
Wear personal protective equipment as detailed in Section 8

Response Code

P362
P302 + P352
P305 + P351+P338

Response Statement

Take off contaminated clothing and wash before re-use
IF ON SKIN: Wash with plenty of soap and water
IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs, get medical advice/attention.
If eye irritation persists, get medical advice/attention.

P332 + P313
P337 + P313

Storage Code
None allocated

Storage Statement

Disposal Code
P501

Disposal Statement
Dispose of according to Local Regulations or Authorities

Section 3 - Composition and Ingredient Information

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

Ingestion	Not applicable
Inhalation	Not applicable
Skin	Causes skin irritation
Eye	Causes severe eye irritation
Chronic	Not applicable

Section 5 - Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from Decomposition Products	Ammonia and / or phosphorous oxides can be evolved at very high temperatures. Exposure to fire may cause containers to rupture / explode.
Suitable Extinguishing Media	Product is an extinguishing agent, use appropriate fire extinguisher for surrounding environment.
Precautions for Firefighters and Special Protective Clothing	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.
HAZCHEM CODE	None Allocated

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 500C.
- Storage areas should be kept clean and free from flammable materials.
- Ensure that containers are properly vented to prevent build up of pressure.

Section 8 - Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

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

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

Eyes	Use approved safety goggles or face shield. Avoid wearing contact lenses.
Skin	Wear chemical resistant gloves.
Respiratory	Wear a dust mask.

Section 9 - Physical and Chemical Properties

Appearance	Powder (solid)
Colour	Yellow
Odour	None
Odour Threshold	Odour threshold is subjective and inadequate to warn for over exposure.
pH	Not available
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Density	Not available
Specific Gravity	Not available
Solubility	Not available
Partition Coefficient	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity, Kinematic	Not available
Particle Characteristics	Not available
Other Information	Stability in temperature - 45 OC ~ +60 OC

Section 10 - Stability and Reactivity

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

Section 11 - Toxicological Information

ACUTE EFFECTS

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

CHRONIC EFFECTS

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

Section 12 - Ecotoxicological Information

HSNO Classes	9.1D = Toxic to aquatic life.
Persistence and Degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other Adverse Effects	Prevent these material entering waterways, drains and sewers.

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

UN No	1044
Class - Primary	2.2
Packing Group	N/A
Proper Shipping Name	FIRE EXTINGUISHERS WITH COMPRESSED GAS
Marine Pollutant	No
Special Provisions	None



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

HSW (HS) Regulations 2017 and EPA Notices

Trigger Quantity

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
Restriction of Use	Only use for the intended purpose.

Section 16 - Other Information

GLOSSARY

EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
TEL	Tolerable 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