


## ABE Dry Powder Extinguisher

13<sup>th</sup> Dec 2019 | R01

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER			
<b>Product Name:</b>	ABE Dry Powder Extinguisher	<b>Other Names:</b>	ABE Extinguisher
<b>Recommended Use:</b>	The intended or recommended use of this product is as a dry powder fire extinguisher.		
<b>Supplier Name:</b>	JSG Industrial System Pty Ltd	<b>Address:</b>	Unit 1, 21 Amour St, Revesby, NSW 2212 Australia
<b>Telephone No.:</b>	+61 2 9914 8720	<b>Fax No.:</b>	+61 2 9914 8798
<b>Email:</b>	jsgindustrial@jsg.com.au	<b>Website:</b>	www.musterfire.com
<b>Information Department:</b>	Product Safety Department	<b>Date Reviewed:</b>	December 2019

SECTION 2: HAZARDS IDENTIFICATION			
<b>Hazard Classification</b>	Classified as dangerous, Gases under Pressure under Compressed Gas Classification according to the Globally Harmonised System of Classification and labeling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Classified as Dangerous Goods under Classification according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition)	<b>Physical Hazards</b>	H280 Contains gas under pressure; may explode if heated.
<b>Pictogram code</b>	GHS04 Gas Cylinder	<b>Signal word</b>	<b>WARNING</b>
<b>Hazard Pictogram</b>		<b>Storage</b>	P410+P403 Protect from sunlight. Store in a well-ventilated space.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical Identity of Ingredients	CAS Number	Percentage %
Mono Ammonium Phosphate	7722-76-1	40 to 90%
Ammonium Sulphate	7783-20-2	10 to 60%
Silica Gel	112926-00-8	0.3%
Nitrogen UN1066	7727-37-9	Not known, gas

SECTION 4: FIRST AID MEASURES			
<b>Inhalation</b>	Remove from exposure. If irritation persists, seek medical help.	<b>Eye Contact</b>	Wash with water for a minimum of 15 minutes. If irritation persists, seek medical help.
<b>Skin Contact</b>	Wash affected area with soap and water. If irritation persists, seek medical help.	<b>Ingestion</b>	If patient is conscious, give large amounts of water and induce vomiting. Seek medical help.
<b>Most important symptoms and effects, both acute, delayed and aggravated</b>	Not known.	<b>Indication of any immediate medical attention and special treatment needed:</b>	None.

## SECTION 5: FIRE FIGHTING MEASURES

<b>Suitable extinguishing Media</b>	This is an extinguishing agent. Use appropriate fire extinguisher for surrounding environment.	<b>Special hazards arising from the substance or mixture</b>	Ammonia and/or phosphorus oxides can be evolved at very high temperatures. Exposure to fire may cause containers to rupture/explode.
<b>Advice for fire fighters and PPE</b>	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.  Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapors, fumes or products of combustion.	<b>Hazchem Code</b>	Not hazardous. No HIN issued under RID and ADR.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Avoid skin and eye contact. Wear appropriate personal protective equipment and clothing to minimize exposure. Increase ventilation.	<b>Methods and Materials for Containment and Clean Up</b>	If possible, contain the spill. Sweep or vacuum up contents and place in sealed container for disposal.
<b>Environmental Precautions</b>	If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Dispose of waste according to the applicable local and national regulations.		

## SECTION 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	<p>Good housekeeping practices.</p> <p><b>Advice on safe use of product:</b> Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.</p> <p><b>Advice on safe handling:</b> 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 buildup of dust in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.</p> <p><b>Environmental precautions:</b> Prevent the buildup of dusts in the work atmosphere.</p>	<b>Conditions for Safe Storage, Including any Incompatibilities</b>	<p>Always store in dry, cool area in original container with lid tightly closed.</p> <p><b>Requirements for storage rooms and containers:</b> Keep containers closed when not in use. Ensure that storage conditions comply with applicable local and national regulations. Do not allow any part of a cylinder to be exposed above 50DegC. Storage areas should be kept clean and free from flammable materials. Ensure that containers are properly vented to prevent buildup of pressure. Ensure, that storage conditions comply with applicable local and national regulations.</p> <p><b>Suitable container/equipment material:</b> No information available.</p> <p><b>Unsuitable container/equipment material:</b> No information available.</p> <p><b>Information on combines storage:</b> No information available.</p>
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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters/ occupational exposure limit values:** No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below according to Safe Work, Australia Exposure Standards:

Substance	CAS No.	TWA*	STEL**
Silica Gel	112926-00-8	ppm - 10 mg/m <sup>3</sup>	No value assigned (for inspirable dust containing no asbestos and less than 1 % crystalline silica)
Nitrogen***	7727-37-9	No value assigned	No value assigned

\*TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

\*\*STEL (Short Term Exposure Limit): The average airborne concentration over a minute period which should not be exceeded at any time during a normal eight-hour workday.

\*\*\* Nitrogen is an asphyxiant gas which when present in an atmosphere in high concentration, leads to reduction of oxygen concentration by displacement or dilution. It is not appropriate to recommend an exposure standard for an asphyxiant, rather it should be required that a sufficient oxygen concentration be maintained.

### Exposure controls

<b>Appropriate engineering controls</b>	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.	<b>Individual protective measures, e.g. Personal Protective Equipment</b>	The following recommendations should be considered: Wear chemical goggles, chemical resistant gloves and dust mask.
<b>Environmental exposure controls</b>	Not known		

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Powder/ Solid/ White	<b>PH</b>	4.5
<b>Apparent Density (Kg/l)</b>	N/A	<b>Stability in Temperature</b>	-60°C to +60°C
<b>Upper and Lower Flammable Limits in Air</b>	Not flammable	<b>Odour and Threshold</b>	No odour warning properties and odour threshold is subjective and inadequate to warn for over exposure
<b>Flash Point</b>	N/A	<b>Ignition Temperature</b>	Does not ignite

Other items where no information was available are not listed


## SECTION 10: STABILITY AND REACTIVITY

<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight.	<b>Hazardous Reactions</b>	None.
<b>Chemical Stability</b>	No special measures are necessary. Stable under normal ambient storage and handling conditions.	<b>Hazardous Decomposition Products</b>	Ammonia and/or phosphorous oxides can be evolved at very high temperatures.
<b>Incompatible Materials</b>	Not determined.	<b>Reactivity</b>	Reacts with incompatible materials.

SECTION 11: TOXICOLOGICAL INFORMATION			
<b>Information on possible routes of exposure</b>			
<b>Eye Contact</b>	Mildly irritating for short periods of time.	<b>Skin Contact</b>	May be mildly irritating.
<b>Inhalation</b>	Treat as a mineral dust. Irritant to the respiratory tract. Transient cough and shortness of breath may occur.	<b>Ingestion</b>	Not an expected route of entry. However if ingested it may cause discomfort.
<b>Acute Overexposure</b>	See above	<b>Chronic Overexposure</b>	Chronic fibrosis of the lung, pneumoconiosis.
<b>Information on toxicological effects</b>			
<b>Toxicity information</b>	This chemical formulation has not been tested for health effects.	<b>Interactive effects</b>	No known effects from this product.
<b>Early onset symptoms relating to exposure</b>	No known effects from this product.	<b>Mixtures of chemicals</b>	No known effects from this product.
<b>Delayed health effects from exposure</b>	No known effects from this product.	<b>Other information</b>	No information available.
<b>Exposure levels and health effects</b>	No known effects from this product.	<b>Interactive effects</b>	No information available.

SECTION 12: ECOLOGICAL INFORMATION			
<b>Eco toxicity</b>	Not determined	<b>Mobility in soil</b>	Not determined
<b>Persistence and Degradability</b>	Not determined	<b>Bio Accumulative Potential</b>	Not determined
<b>Environmental Fate (Exposure)</b>	None	<b>Other Adverse Effects</b>	Not determined

SECTION 13: DISPOSAL CONSIDERATIONS			
<b>Disposal Methods and Containers</b>	No harm to the environment is expected from this preparation. Dispose of in compliance with local, state and Commonwealth regulations.	<b>Special Precautions for Landfill or Incineration</b>	None
<b>Physical/ Chemical Properties that may Affect Disposal Options</b>	Not determined	<b>Effects of Sewerage Disposal</b>	Not determined

SECTION 14: TRANSPORT INFORMATION	
<b>Labelling ADG, IMO/IMDG, ICAO/IATA</b>	2.2 Nonflammable, non-toxic gas 
<b>Special precautions for user</b>	Not available.

Rail and Rail Transport (ADG Code)	
Classification	Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road & Rail (Seventh edition, 7.4, 2015)
UN number	1044
Proper shipping name	FIRE EXTINGUISHERS with compressed or liquefied gas
Transport hazard class/division	2.2
Packing group	N/A
HAZCHEM - Emergency Action Code	No Hazchem Code issued to these articles. No HIN issued under RID and ADR.
Special Provisions	225
Limited Quantities	120ml
Packing Instruction	P003
Special Packing Provisions	PP91
Marine Transport (ICAO/IATA)	
Classification	Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
UN number	1044
Proper shipping name	FIRE EXTINGUISHERS with compressed or liquefied gas
Division	2.2
Environmental hazards for Transport Purposes	Not a known pollutant according to the International Maritime Dangerous Goods (IMDG) Code. Substance is not classified as having an acute aquatic toxicity hazard.
Emergency Schedule (EmS) - Fire	F-C
Emergency Schedule (EmS) - Spillage	S-V
Special Provisions	225
Air Transport (ICAO/IATA)	
Classification	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
UN number	1044
Proper shipping name	FIRE EXTINGUISHERS with compressed or liquefied gas
Division	2.2
Packing instruction (cargo Aircraft only)	213
Packing instruction (Passenger and Cargo Aircraft)	Restricted.
Special Provisions	A19

SECTION 15: REGULATORY INFORMATION	
<b>Safety, health and environmental regulations/ legislation specific for the substance</b>	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as a Scheduled Poison according to the standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
<b>AICS (Australia)</b>	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted
<b>Chemical assessment</b>	Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: OTHER INFORMATION	
<b>Key literature references and sources</b>	<ul style="list-style-type: none"> <li>▪ Classification in accordance with the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].</li> <li>▪ This Safety Data Sheet where necessary has been established in accordance with the applicable European Union legislation and has used calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD.</li> <li>▪ Standard for the Uniform Scheduling of Medicines and Poisons. (SUSMP) Australian Inventory of Chemical Substances (AICS)</li> <li>▪ Australian Code for the Transport of Dangerous Goods by Road &amp; Rail (2015, 7th Edition, 7.4)</li> <li>▪ Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.</li> <li>▪ Workplace exposure standards for airborne contaminants, Safework Australia.</li> <li>▪ International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.</li> </ul>
<b>Disclaimer</b>	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.