

Impulse Powder Fire Suppressant

SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER			
Product Name:	Muster ^{II} Impulse Powder System	Other Names:	None
Recommended Use:	Fire Suppression		
Supplier Name:	JSG Industrial System Pty Ltd	Address:	Unit 1, 21 Amour St Revesby 2212 Australia
Telephone No.:	+61 2 9914 8720	Fax No.:	+61 2 9914 8798
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Information Department:	Product Safety Department	Date Reviewed:	July 2017

SECTION 2: HAZARDS IDENTIFICATION		
Module Housing	Gas Generating Compound	Dry Chemical Agent
Application of current causes activation	Flammable	High obscuration upon activation
Upon activation releases low-toxic non-flammable powder-gas mixture	When combusted produces aerosol	Irritating to eyes and respiratory tracks
Propels upon activation if unsecured		

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS					
Gas-Generating Compound			Dry Chemical Agent		
Ingredients	Cas-Number	Content %	Ingredients	Cas-Number	Content %
Potassium Nitrate	7757-79-1	<3	Ammonium sulfate	7783-20-2	65-75
Barium Nitrate	10022-31-8	<1	Ammonium Hydrogen Phosphate	7722-76-1	20
Oxygen-containing binder		<1			
Plasticizer (gas generator)		<1			

SECTION 4: FIRST AID MEASURES	
Intake/Contact	Measures
Inhalation	Remove to fresh air, lie down and rest. If not breathing - apply artificial respiration. Oxygen may be given only under supervision of a trained person. Keep warm and transport to hospital or doctor.
Ingestion	Rinse the mouth. Drink plenty of water. Ingestion is considered unlikely due to product form.
Skin Contact	Wash affected area with water.
Eye Contact	Hold eyes open and wash continuously with water for at least 15 minutes and seek medical attention.
Burns	N/A

SECTION 5: FIRE FIGHTING MEASURES
Product is an extinguishing agent.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Safety	Ensure adequate ventilation. Avoid generating dust. Do not inhale dust. Use breathing protection against the effects of dust/gas-powder mixture.
Environment Safety	Do not allow into drainage system, surface or ground water. Do not allow into the ground/soil.
Spillage	If spilt (bulk), contact emergency services where appropriate. Clear area of all unprotected personnel, and wear dust-proof goggles, PVC/ rubber gloves, a class P1 (Particulate) respirator (where dust risks exists), coveralls and rubber boots. Cover spill with moist sand or similar, collect and place in a sealable container for disposal. Avoid generating dust.
Clean-up	Collect the powder mechanically. Dispose off the contaminated material as per 13.
Dangerous Chemicals	No dangerous chemicals are released in quantities that may present a hazard.

SECTION 7: HANDLING AND STORAGE

Keep modules in ventilated stores at normal ambient temperatures away from heaters and direct sunlight. Avoid accumulation of dust.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures	For areas where people may be present provide suitable safeguards such as personnel training, warning signs, pre-discharge alarms and others as required by relevant International or National Standards. Provide general and local exhaust ventilation.
Components Monitoring	The product does not contain any relevant quantities of materials with critical values that require constant monitoring at the workplace.
Precautions	Do not inhale vapors/fumes/smoke/dust. When handling the product, maintain adequate natural ventilation where practicable. In a fire situation, ventilation may be difficult to control. Contact emergency personnel.
Personal Protective Equipment	Wear dust-proof goggles and PVC or rubber gloves. At high dust levels, wear a class P1 (particulate) respirator. In a major fire situation, wear full personal protective equipment including Self Contained Breathing Apparatus (SCBA).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Description
Appearance	Solid, light blue Dry Chemical Agent
Odour	Odourless
Density	Not determined
Melting Point	Not determined
Ignition Temperature	N/A
Flash Point	N/A
Solubility	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Parameter	Value/ Description
Stability	Stable under specified temperature conditions.
Conditions to Avoid	Avoid contact with alkalis. Corrodes copper and brass.
Hazardous Decomposition Products	No decomposition if used as intended. Will evolve small quantities of potentially toxic gases (ammonia, nitrogen/phosphorous oxides) when heated.

SECTION 11: TOXICOLOGICAL INFORMATION

Parameter	Description
Inhalation	Low toxicity – low irritant. Overexposure may result in mucous membrane irritation of the nose and throat with heated. If heated small quantities of potentially toxic gases (ammonia, nitrogen/phosphorous oxides) will be evolved.
Skin Contact	Non-irritant.
Eye Contact	Low irritant. Direct contact may result in redness and conjunctivitis.

SECTION 12: ECOLOGICAL INFORMATION

Global Warming Potential (GWP)	Zero
Ozone Depletion Potential (ODP)	Zero
Atmospheric Life Time (ALT)	Low

Note: Do not allow into drainage system, surface or ground water. Do not allow into the ground/soil.


SECTION 13: DISPOSAL CONSIDERATIONS

Dry Chemical Agent	Gas Generator
A standard disposal procedure for industrial waste should be followed. Do not dispose off together with the household garbage. Do not allow into drainage system, surface or ground water. Do not allow into the ground/soil.	Non Activated Only - DG goods of class 4.1. Dispose off accordingly to the National Standards for the disposal of DG goods or send back to the manufacturer for disposal.
	Activated Only - Standard metal waste disposal procedure applies.

SECTION 14: TRANSPORT INFORMATION

Proper Shipping Name	Flammable Solid, Inorganic, n.o.s (Potassium Nitrate mixture)
UN No.	3178
Class No.	4.1
Packaging Group	III
Hazchem Code	1[T]

SECTION 15: REGULATORY INFORMATION

Hazard symbol	 <p>Flammable Solid, Class 4.1</p>	Safety Phrases	S22 - Do not breathe dust
			S9 - Keep container in well ventilated place
			S2 - Keep out of reach of children
National Standards	National standards on use of dry chemical and aerosol fire extinguishing systems.		

SECTION 16: OTHER INFORMATION

General	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.	Contact	Customer Support +61 2 9914 8720
Department Issuing Data Specification Sheet	Product Safety Department		