SECTION 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER			
Product Name	MICRO-K	Other Names	None
Recommended Use	The intended or recommended use of this preparation is as a fire extinguishing agent.		
Supplier Name	Wormald Address Unit 1, 2-8 South Street Rydalmere, NSW 2116 AUSTRALIA		
Telephone No.	133 166	Emergency Telephone No.	133 166 or 000
		Date Prepared	May 2013

SECTION 2: HAZARDS IDENTIFICATION			
Hazard Classification	Hazardous substance		
DG Class	7, 16, 17, 28, 37/39	Hazchem Code	8, 22, 36/37/38, 43

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS			
SUBSTANCE			
Chemical Identity of the Pure Substance	Common Name / Synonyms	CAS Number	
Not applicable	Not applicable	Not applicable	
MIXTURE			
Chemical Identity of Ingredients Proportion of Ingredients CAS Number			
Potassium Nitrate	75%	7757-79-1	
Magnesium 2%		7439-95-4	
Epoxy Resin Polymer 23% 25068-38-6			

SECTION 4: FIRST AID MEASURES		
Description of Necessary First Aid Measures	EYE CONTACT	Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention.
	SKIN CONTACT	Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains. Get medical attention immediately.
	INHALATION	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest. Get medical attention immediately.
	INGESTION	Remove by gastric lavage or emesis. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Do not perform lavage or emesis if victim is unconscious. Get medical attention immediately.
Medical Attention and Special Treatment	See above	
Aggravated Medical Conditions Caused by Exposure	None known	

SECTION 5: FIRE FIGHTING MEAS	URES		
Suitable Extinguishing Media	This is an extinguishing agent	Hazards From Combustion Products	Combustion or decomposition products include NO _X , K ₂ O, CO.
Special Protective Precautions and Equipment for Fire Fighters	Relative to special protective equipment needed for fire fighters. Material will generate an aerosol under conditions of fire which will be irritating and may be toxic.	Hazchem Code	2YE

SECTION 6: ACCIDENTAL RELEASE MEASURES	
Emergency Procedures	This preparation, if spilled, is a hazardous waste. It is an oxidiser. Prevent skin and eye contact.
Methods and Materials for Containment and Clean Up	Sweep up and reuse or place in a closed container for disposal. Keep from entering surface water.

SECTION 7: HANDLING AND STORAGE	
Precautions for Safe Handling	Care should be taken in handling all chemical substances and preparations. Do not mix with other extinguishing agents. Avoid contact with combustible materials.
Conditions for Safe Storage, Including any Incompatibilities	Avoid contact with combustible materials. Storage Class (VCI): 5.1 B [Oxidising agents (TRG 515 Groups 2 + 3)]. Store in original container. Keep tightly closed until used. Keep from entering surface water.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION			
National Exposure Standards Not applicable Biological Limit Controls Not available			
Engineering Controls	Not available	Personal Protection Equipment	Chemical goggles, chemical resistant gloves, and mechanical ventilation or a dust mask.

<Document Version 1> <Micro-K> Page 1 of 2





SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Appearance	White to light grey	Odour	None
рН	Not applicable	Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable	Boiling Point / Range	Not applicable
Freezing / Melting Point (specify)	Not applicable	Solubility in Water	Partially soluble
Specific Gravity or Density	Not applicable	Flash Point	None
Upper and Lower Flammable (explosive) Limits in Air	Not explosive	Ignition Temperature	Does not ignite

SECTION 10: STABILITY AND REACTIVITY			
Chemical Stability	Stable	Conditions to Avoid	On contact with hot surfaces potassium nitrate decomposes forming nitrogen oxides and oxygen, which increase fire danger.
Incompatible Materials	Potassium nitrate is a strong oxidiser and reacts at high temperatures with combustible and reducing materials. Reacts violently with aluminium, aluminium oxide, and acetic anhydride causing fire and explosion hazard.	Hazardous Decomposition Products	Combustion or decomposition products include NO_X , K_2O , CO .
Hazardous Reactions	See above		

SECTION 11: TOXICOLOGICAL INFORMATION			
Health Effects From the Likely Routes of Exposure		EYE CONTACT	May cause redness and pain.
		SKIN CONTACT	May cause redness.
		INHALATION	Can be irritating to mucous membranes.
		INGESTION	Large doses may cause nausea and vomiting with tenesmus.
Acute Overexposure	See above		
Chronic Overexposure	Blood and central nervous system.		

SECTION 12: ECOLOGICAL INFO	RMATION	
Ecotoxicity	Components: Potassium Nitrate: Fish, Poecilia reticulata: LC50 (24 hrs) 1927 mg/L Fish, Poecilia reticulata: LC50 (96 hrs) 1378 mg/L Crustacea, Daphnia magna: TLm (24 hrs) 490 mg/L	
Mobility	Not determined	
Persistence and Degradability	Not determined	
Bioaccumulative Potential	Not determined	
Environmental Fate (Exposure)	Ozone depletion potential: Photochemical ozone creation potential: None Global warming potential: None	

SECTION 13: DISPOSAL CONSIDERATIONS		
Disposal Methods and Containers	This preparation, if spilled, is a hazardous waste. It is an oxidiser. Keep from entering surface water. Dispose of in compliance with local, state and Commonwealth regulations that may be in force.	
Special Precautions for Landfill or Incineration	None	

SECTION 14: TRANSPORT INFORMATION				
UN Number	UN 1479	UN Proper Shipping Name	MICRO-K	
Class and Subsidiary Risk	Hazard Class 5.1 Oxidiser	Packing Group	Packing Group I	
Special Precautions for User	Keep from entering surface water.	Hazchem Code	2YE	

SECTION 15: REGULATORY INFORMATION	
The regulatory status of a material (including its ingredients) under relevant Australian health, safety and environmental legislation.	MICRO-K has Australian ActivFire approval listing as a fire extinguishing agent.

SECTION 16: OTHER INFORMATION	
Date of Preparation	May 2013

Contact Us

Australia Phone: 133 166

New Zealand Phone: 0800-4-WORMALD Fiji Phone: 336 1455



<Document Version 1> <Micro-K> Page 2 of 2