



ABN: 9109 740 5984

Safety Data Sheet (SDS)

KoolKap® Down-Under Bags Issue 19 October 2016

1. PRODUCT AND COMPANY IDENTIFICATION		
Product Name	KoolKap® Down-Under	
Other Names	Aerosol, Gas Bag	
Uses	Blast hole decking, or used for plugging via aerosol multilayer bag in mining applications	
Company	PR Polymers Pty Ltd 142 Mica St, Carole Park, Queensland, 4300, Australia General Enquiries Telephone: +61 7 3376 5999 or 1800koolkap (1800 566 552) – calls from Australia only	
Emergency contact numbers	Brisbane office: +61 7 3376 5999 Mike Martin: +61 408 398 510 Brisbane fax: +61 7 3376 5944	
2. HAZARDS IDENTIFICATION		
Work Safe Hazard Assessment	Non-hazardous according to criteria of Worksafe Australia.	
UN Number	1950	
Dangerous Goods Class	2.2 Non-Flammable, Non-Toxic gas.	
Hazchem Code	None allocated	
Poisons Schedule	None scheduled	
3. COMPOSITION / INFORMATION ON INGREDIENTS		
Chemical Name	CAS Number	Proportion
Dimethyl Ether (DME)	115-10-6	15-16%
Propane butane	68476-85-7	21-33%
Water	-	50-63%
Isopropyl Alcohol	67-63-0	2% (max)
4. FIRST AID MEASURES		
Swallowed	Drink quantity of water.	
Eye	Flush continuously with plenty of clean water for 15 minutes. Seek medical attention.	
Skin	In case of frostbite, DO NOT remove any clothing, rinse with plenty of water. Seek medical attention.	
Inhalation	Remove affected person to the fresh air. If not breathing, give artificial respiration by mouth to mouth. Seek medical attention.	
Advice to Doctor	Treat symptomatically. In cases of excessive skin contact, treat as frostbite	
Toxicity Data	Major ingredient - Has LC50 of 164,000ppm.	

5. FIRE FIGHTING MEASURES

Small Fire.

Use water spray, dry chemical or CO₂.

Large Fire.

Use water spray or fog.

Fight fire from protected position or use unmanned hose holders or monitor nozzles.

If safe to do so, move undamaged containers from area – DO NOT approach hot containers.

Cool containers with water before handling.

If impossible to extinguish fire, protect surroundings, withdraw from area and allow fire to burn.

Ruptured or heated container may become a projectile hazard over a limited distance up to 50 metres.

Aerosol can is non-flammable; however, inflated bag contains flammable vapour so keep away from heat or ignition sources.

Hazardous decomposition products include carbon dioxide (CO₂) and carbon monoxide (CO).

6. ACCIDENTAL RELEASE MEASURES

ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 15 m.

All equipment used when handling the product must be earthed.

If water is available, spray leaking containers to reduce ignition hazard and disperse gas.

Isolate area until gas has dispersed.

Ventilate the area.

Heat or damage to containers may release flammable gases.

Containers may explode when heated – Ruptured containers may rocket.

Keep the public away and keep upwind.

Ensure that any water contaminated product does not enter sewers, drains, basements or work pits.

Advice authorities if substance has entered a watercourse or sewer.

Advice authorities if a large area of soil or vegetation has been contaminated from leaking aerosol cans.

For Fire Fighters – Recommend wear SCBA and protective gloves.

Structural firefighter's uniform will provide limited protection.

If large load is involved in a fire, consider initial evacuation of areas within 100m in all directions.

7. HANDLING AND STORAGE

This product is safe to handle in ambient conditions and in accordance with PR Polymers KoolKap® Storage and Handling Best Practice Guide.

Do not use if indications of a damaged outer bag or can is visible as it is a pressurised vessel.

Report damaged goods to PR Polymers by calling one of the company or emergency contact numbers on page 1 of this SDS.

Keep in a cool and well ventilated place out of direct sunlight.

Do not heat above 65°C.

KoolKap® Down-Under bags are designed and tested to be used within the recommended 12-month period of purchase.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Exposure Standards	Worksafe TWA & STEL: None specified
	PEL (OSHA) & TLV (ACGIH): None specified
	AEL (DuPont) & WEEL (AIHA): 1000ppm, 8 & 12 hour TWA
Engineering Controls	None specified - intentionally left blank
Personal Protection	Not required under normal conditions of use as all gases and vapours are isolated. Wear safety glasses or face shields, appropriate mask and gloves if used in a confined space over a prolonged period.
9. PHYSICAL AND CHEMICAL PROPERTIES	
Appearance	Green liquid spray (packed in aerosol can with over cap)
Vapour Pressure	@ 51° C 1131kPa @ 65°C 1425kPa
	Can Burst Pressure 2174kPa
	Complies with AS2278-2008
Heat of Combustion	<10kJ/g
Specific Gravity	0.86 - 0.9 @ 20°C
Flammability Limits	Non Flammable in accordance with the Australian Dangerous Goods Code 7 th Edition & United Nations Manual of Test & Criteria 4 th Revised Edition, UN New York & Geneva 2003. Non-Flammable in accordance with ASTM D3065-01 Standard Test Methods for flammability of Aerosol Products.
Solubility in Water	Partially soluble in water.
Boiling Point	No information about specific characteristics or data available
Melting Point	No information about specific characteristics or data available
Flashpoint	No information about specific characteristics or data available
10. STABILITY AND REACTIVITY	
Stability - Product is considered stable at temperature up to 65°C. Hazardous Polymerisation - Will not occur Hazardous Reaction - Excessive heat, alkali metals	
11. TOXICOLOGICAL INFORMATION	
Swallowed	Not normally a hazard due to the physical form of the product released as a gas within multi layers of sealed food grade plastics
Eye	Product not normally in contact with eyes and it is not thought to be an irritant or considered to be a risk
Skin	Product not normally in contact with the skin or hair and not considered to be a risk
Inhalation	Product not normally inhaled and not considered to be a risk

12. ECOLOGICAL INFORMATION					
<p>Eco toxicity: Liquid component (isolated)</p> <p>Mobility/Biodegradability: The product is not expected to biodegrade. The contents of this product are expected to evaporate and degrade under normal conditions.</p>					
13. DISPOSAL CONSIDERATIONS					
DO NOT incinerate or puncture can, even when empty. Dispose of empty can through normal waste disposal authority. Inflated bags should be punctured in a well-ventilated area away from heat or ignition sources and disposed through normal waste disposal authority.					
14. TRANSPORT INFORMATION					
Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1950	UN No.	1950	UN No.	1950
Proper shipping name	Aerosols	Proper shipping name	Aerosols	Proper shipping name	Aerosols
DG class	2.2	DG class	2.2	DG class	2.2
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing group	Intentionally left blank	Packing group	Intentionally left blank	Packing group	Intentionally left blank
Hazchem	Intentionally left blank	Hazchem	EMS# F-D, S-U	Hazchem	Intentionally left blank
15. REGULATORY INFORMATION					
Country: Australia					
Poisons schedule: None					
16. OTHER INFORMATION					
<p>Reason for issue: This document conforms to Work Safe Australia standard headings and format as per "Preparation of Safety Data Sheets for Hazardous Chemicals" http://www.safeworkaustralia.gov.au/sites/swa/about/publications/pages/safety-data-sheets-hazardous-chemicals-cop</p>					
<p>Whilst the information contained in this document is based on data which, to the best of our knowledge, was accurate and reliable at the time of preparation, no responsibility can be accepted by us for errors and omissions. The provision of this information should not be construed as a recommendation to use any of our products in violation of any patent rights or in breach of any statute or regulation. Users are advised to make their own determination as to the suitability of this information in relation to their particular purposes and specific circumstances. Since the information contained in this document may be applied under conditions beyond our control, no responsibility can be accepted by us for any loss or damage caused by any person acting or refraining from action as a result of this information.</p> <p>Abbreviations;</p> <p>CAS Number – Chemical Abstracts Number SCBA – Self Contained Breathing Apparatus TWA – Time Weighted Average STEL – Short Term Exposure Limit PEL – Permissible Exposure Limit OSHA – Occupational Safety and Health Administration TLV – Threshold Limit Value ACGIH – American Conference of Governmental Industrial Hygienists WEEL – Workplace Environmental Exposure level</p>					

AIHA – American Industrial Hygiene Association

This SDS is issued in accordance with Worksafe Australia guidelines and the information must not be altered or deleted in any way. PR Polymers Pty Ltd will issue a new SDS when there is a change in specifications and/or Worksafe Australia guidelines/regulations.

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KoolKap® Down- Under bags have been awarded by The Aerosol Association of Australia and New Zealand, the 2005 “Award for Environmental Achievement and Sustainability”

