

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	BREAKAWAY PLUS
Manufacturer's Product Code	5913
Other Names	High pressure, high temperature anti-seize compound
Major Recommended Uses	As a high temperature, high pressure anti-seize and lubricating compound
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	May 2008

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	Not classified as hazardous according to the criteria of ASCC
Dangerous Goods Class & Sub-risk	None allocated
Poisons Schedule	None allocated
Risk Phrases	None
Safety Phrases	Keep out of Reach of Children

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients		
Chemical Entity	CAS No	Proportion
'Ingredients determined not to be hazardous'		to 100%

SECTION 4 – FIRST AID MEASURES

Skin	Wipe away material with a cloth, and wash with soap and water. Not usually a hazard, but seek medical attention if irritation develops.
Eye	Rinse the eyes with water. Remove any contact lenses and continue flushing with plenty of water for several minutes. Seek medical attention if irritation develops.
Inhalation	Not usually a hazard. Remove victim to fresh air and seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	Give water if swallowed, but do not induce vomiting. Give water again if vomiting occurs. Seek medical attention if discomfort occurs.
First Aid Facilities	An eye wash station and general washroom facilities should be available for easy rinsing if eye contact occurs.
Advice to Doctor	Symptoms resulting from inhalation overexposure usually disappear within 24-hours. Symptomatic treatment, such as bed rest and possibly aspirin is recommended to provide relief from fever and chills.
Additional Information	Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema and dermatitis. Target organs: Central nervous system, lungs and kidneys. The primary route of entry into the body is via inhalation. The primary routes of exposure are skin and eye contact.

SECTION 5 – FIRE FIGHTING MEASURES

Product is non-flammable.	
Suitable Extinguishing Media	Use foam, dry chemical, CO ₂ or water spray to extinguish fire. Extinguishing media should be chosen based on the nature of the surrounding fire.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and full protective gear. Cool fire-exposed containers with water spray to prevent bursting.
Fire/Explosive Hazards	Spills may be slippery. The use of water spray (fog) whilst effective, may cause frothing and foaming. Don't use a water jet as this will just spread the fire. Hazardous decomposition products include oxides of carbon and zinc, and hydrocarbons upon thermal decomposition.
Hazchem Code	None allocated.

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SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills may be slippery. Wear appropriate protective clothing as required.	
Methods and Materials for Containment and Clean Up	Due to the nature of the packaging and the solid paste form of the product, a large spill is unlikely. For small spills, wipe with a cloth and transfer material into a properly labelled container for disposal. For larger spills, scoop up material into container. Dispose of in the labelled containers in accordance with all federal, state, and local regulations. Area and residue can be flushed with water. No neutralising agent is required. Uncontaminated spilled material may be re-used. Prevent spilt product from contaminating soil or entering sewerage and drainage systems and bodies of water.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Observe precautions stated on product label, and follow industry safety regulations.
Conditions for Safe Storage	Store material indoors in its original, closed container when not in use. Store at temperatures under 49°C. Keep product from freezing. Do not pressurise, cut, weld, solder, drill, grind, or expose empty containers to heat, hot surfaces, sparks, or open flames.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	None established for this product. The generic ASCC recommended exposure standard for mineral oil mist is TWA 5mg/m ³ .
Engineering Controls	General ventilation is usually adequate. Local ventilation is recommended to control exposure from operations that generate levels of oil mist in excess of the ASCC exposure recommendation.
Personal Protective Equipment	
Eye/Face Protection	Whilst none is required under normal conditions of use, safety glasses should be worn if the method of application presents the likelihood of eye contact. AS1336 and AS/NZS1337 should be consulted for information on eye protection.
Skin Protection	Neoprene or nitrile rubber gloves if repeated or prolonged skin contact is likely. Wear general-duty work clothes and enclosed shoes. Refer to AS/NZS 2161 for information on glove selection and AS/NZS 2210 for advice on Occupational Protective Footwear. Wash clothing before re-use.
Respiratory Protection	None required under normal conditions of use. For concentrations above the exposure standards outlined, an approved half-facepiece respirator equipped with appropriate chemical cartridges may be used. Reference should be made to Australian Standards AS/NZS 1715 – 'Selection, Use and Maintenance of Respiratory Protective Devices'; and AS/NZS 1716 – 'Respiratory Protective Devices.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque, white, viscous paste.
pH (100%)	Not applicable
Boiling Point	>232°C
Vapour Pressure	<0.1mm Hg
Vapour Density	>1 (Air = 1)
Evaporation Rate	<0.10 (BuAc = 1)
Solubility in Water (g/L)	Negligible.
Specific Gravity	1.16 at 25°C (Water = 1)
Flashpoint	Non-flammable
Flashpoint Method	C.O.C.
Volatility by Volume	0

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Strong oxidising agents such as chlorine bleach and concentrated hydrogen peroxide; strong acids and bases; heated magnesium; chlorinated rubber.
Hazardous Decomposition Products	Hazardous decomposition products include oxides of carbon and zinc and various hydrocarbons

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SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute - Swallowed	May cause irritation with possible nausea, vomiting and diarrhoea.
Acute - Eye	Direct contact with eyes causes irritation seen as stinging, tearing and redness.
Acute - Skin	Not a problem in normal use, but irritation seen as itching and redness may occur for skin contact beyond the normal use pattern.
Acute - Inhaled	Typically not a hazard, but under extreme conditions of mis-use respiratory irritation seen as coughing and sneezing may be seen. Fumes may cause headache, dizziness, nausea, tightness of chest, fever, chills, dry throat and influenza-like symptoms.
Chronic	Chronic exposure may cause respiratory tract irritation with nasopharyngitis and laryngitis. On rare occasions, repeated/chronic exposure to oil mist may pose a risk of chronic lung inflammation. Prolonged and/or repeated contact as from clothing wet with material may cause drying, defatting, and cracking of the skin, with an allergic skin reaction seen as delayed skin rash and blistering. Chronic skin contact may promote dermatitis and oil acne. Medical conditions aggravated by exposure are pre-existing respiratory and skin conditions such as asthma, emphysema, and dermatitis.
Target Organs	Central nervous system, lungs and kidneys.
Product Contains Chemicals Listed as Carcinogens by	International Agency for the Research of Cancer (IARC): NO Other : NO

SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse mental effects are foreseen.	
Mobility	Not soluble in water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste in a closed, labelled container in accordance with EPA, local, state and federal laws.

SECTION 14 – TRANSPORT INFORMATION

UN Number	None allocated.
UN Proper Shipping Name	None allocated.
Transport Hazard Class	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packaging Group	None allocated.
Hazchem Code	None allocated.

SECTION 15 – REGULATORY INFORMATION

Poisons Schedule: None allocated.

SECTION 16 – OTHER INFORMATION

Initial copy of 16-header MSDS.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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