



# Material Safety Data Sheet

## Anti Seize Copper Compound

**Issue Date**                    **Non-hazardous Substance**  
**Non-dangerous Goods**

June, 2012  
**Status**                        Issued by Royal Precision Lubricants Pty Limited

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### COMPANY DETAILS

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**Company Name**            Royal Precision Lubricants Pty Limited (ABN 72 155 989 165)  
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### PRODUCT IDENTIFICATION

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**ProductName**              Anti Seize Copper Compound  
**UN Proper Shipping**  
**Name**                        None allocated  
**Other Names**                None listed  
**Recommended Use**        High temperature antiseize grease.

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### Section 2: HAZARDS IDENTIFICATION

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**NOHSC Classification**    Not classified as hazardous according to criteria of NOHSC.  
**ADG Classification**        Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
Note: Combustible materials may be classified as Class 9: miscellaneous dangerous goods if transported with flammable materials. See ADG code for further information.  
**SUSDP Classification**    Not Scheduled  
**Risk Phrases**                None  
**Safety Phrases**              None

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### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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Name	CAS	Proportion	Risk Phrases
All ingredients determined not to be hazardous	Not required	100%	-

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## Section 4: FIRST AID MEASURES

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<b>Swallowed</b>	DO NOT induce vomiting. Immediately wash out mouth with water, and then give plenty of water to drink. Seek medical attention.
<b>Eye</b>	Rinse eyes immediately with water for at least 15 minutes. In case of irritation, seek medical advice.
<b>Skin</b>	Remove all contaminated clothing. Wash gently and thoroughly with water and non-abrasive soap. Ensure contaminated clothing is washed before re-use or discard. If irritation develops and persists, seek medical attention. Should grease be accidentally injected under the skin no matter how minor, seek IMMEDIATE medical attention.
<b>Inhaled</b>	Remove the patient to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. If irritation develops, seek medical attention.
<b>First Aid Facilities Advice to Doctor</b>	No special facilities required. Treat symptomatically. NOTE: High Pressure Applications: Injections under the skin resulting from contact with high pressure, constitutes a major medical emergency. Injuries may not appear serious at first but within a few hours, tissue becomes swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Surgical exploration should be undertaken without delay. Thorough and extensive debridement of the wound and underlying tissue is necessary to minimise tissue loss and prevent or limit permanent damage. Note that the high pressure may force the product considerable distance along tissue.

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## Section 5: FIRE FIGHTING MEASURES

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<b>Fire/Explosion Hazard</b>	Classified as C2 (Combustible liquid).
<b>Extinguishing Media</b>	Use water as fog or spray to cool fire exposed containers. Do not use direct stream of water; product will float, possibly re-igniting.
<b>Fire Fighting Precautions</b>	Self-Contained Breathing Apparatus (SCBA) and full protective clothing should be worn.
<b>Flash Point</b>	> 250°C(COC)
<b>Hazchem Code</b>	None allocated
<b>Hazards from Combustion Products</b>	Oxides of carbon.

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## Section 6: ACCIDENTAL RELEASE MEASURES

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<b>Spills Procedure</b>	<b>SMALL - 20 LITRES OR LESS</b> Soak up with inert oil absorbent. Arrange for disposal through an approved facility. <b>LARGE - GREATER THAN 20 LITRES</b> Remove all sources of ignition. Increase ventilation. Evacuate all unnecessary personnel. Wear full protective equipment and clothing to minimise exposure. If possible contain the spill. Place inert absorbent material such as vermiculite, sand or dirt onto spillage. Use clean non-sparking tools to collect the material and place into a suitable labelled container. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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## Section 7: HANDLING AND STORAGE

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<b>Handling</b>	<p>Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of skin disorders. It is essential that all who come into contact, maintain high standards of personal hygiene ie. washing hands prior to eating, drinking or going to the toilet. Build-up of mists in the working atmosphere must be prevented.</p> <p>Misuse of empty containers can be hazardous. Do not cut, weld, heat or drill containers. Residue may ignite with explosive violence if heated sufficiently. Do not pressurise or expose to open flame or heat. Keep container closed and bung in place.</p>
<b>Storage Precautions</b>	<p>Classified as a combustible substance for storage and handling purposes. Store in a cool, dry, well-ventilated area, out of direct sunlight. Avoid sparks, flames, and other ignition sources. Store away from incompatible materials such as materials that support combustion (oxidising materials). Reference should be made to Australian Standard AS1940- The storage and handling of flammable and combustible liquids.</p>

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## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Exposure Limits</b>	<p>No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Exposure Standards for constituents are listed below.</p>
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SUBSTANCE	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Oil mist, mineral	-	5	-	10
Copper powder	-	-	-	0.1

\*Copper powder has an exposure limit of 0.1mg/m<sup>3</sup> as an atmospheric contaminant (ACGIH). It is highly unlikely that the copper powder in this product would become airborne as it bound by the other ingredients.

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short-term exposure limit (STEL).

<b>Biological Limit Values</b>	<p>No biological limit allocated.</p>
<b>Engineering Control</b>	<p>The use of mechanical dilution ventilation is recommended whenever this product is used in a confined space, is heated above ambient temperatures or otherwise to maintain ambient concentration below the recommended threshold exposure limits.</p>
<b>Respirator Type</b>	<p>Avoid breathing vapours or mists. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours are generated, the used of the following is recommended: Half face piece respirator with dust/mist filters. The appropriate filter capacity and respirator type will depend on exposure levels encountered.</p>
<b>Eye Protection</b>	<p>Chemical safety goggles are recommended. If handled hot, a full face shield should be worn.</p>
<b>Glove Type</b>	<p>Use of impervious rubber gloves are recommended.</p>
<b>Clothing</b>	<p>Clothing should be suitable to avoid product contacting the skin on a prolonged or repeated basis.</p>

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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance</b>	Smooth gold coloured grease
<b>Odour</b>	Negligible
<b>Melting Point</b>	> 250°C
<b>Boiling Point</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>pH</b>	Not applicable
<b>Specific Gravity</b>	Approx. 0.9 g/cm <sup>3</sup>
<b>Flashpoint</b>	> 250°C (COC)
<b>Flamm. Limit LEL</b>	Not available
<b>Flamm. Limit UEL</b>	Not available
<b>Solubility in Water</b>	< 0.1 g/l

### Other Properties

<b>Worked Penetration (x60) @ 25°C</b>	290 - 320
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## Section 10: STABILITY AND REACTIVITY

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<b>Stability</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid</b>	None allocated.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Oxides of carbon.
<b>Hazardous Reactions</b>	No hazardous polymerisation will occur.

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## Section 11: TOXICOLOGICAL INFORMATION

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<b>Toxicology</b>	The classification as a carcinogen need not apply in this case as the main constituents in this product are in accordance with Note L of the NOHSC Designated List of Hazardous Substances (containing less than 3% DMSO extract as measured by IP 346).
<b>Acute - Swallowed</b>	May cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea, vomiting and diarrhoea.
<b>Acute - Eye</b>	May cause slight to moderate eye irritation, resulting in redness and stinging. May dry and defat the skin, resulting in skin irritation and possible dermatitis. Grease accidentally injected under the skin can result in local necrosis and tissue damage.
<b>Acute - Skin</b>	
<b>Acute - Inhaled</b>	May cause irritation to the mucous membrane and upper airways, especially if the material is heated or mists are generated and/or is used in poorly ventilated areas. Symptoms may include headache, dizziness and nausea.
<b>Chronic</b>	Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis.

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## Section 12: ECOLOGICAL INFORMATION

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<b>Ecotoxicity</b>	No ecotoxicological classifications.
<b>Persistence and Degradability</b>	This product is inherently biodegradable.
<b>Mobility</b>	Spillages are unlikely to penetrate the soil.

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## Section 13: DISPOSAL CONSIDERATIONS

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<b>Disposal Method</b>	Dispose of waste according to federal, EPA, state and local regulations. Assure conformity with all applicable regulations.
<b>Special Disposal Precautions</b>	None allocated.

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## Section 14: TRANSPORT INFORMATION

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<b>UN Number</b>	None allocated
<b>UN Proper Shipping Name</b>	None allocated
<b>DG Class</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Note: Combustible materials may be classified as Class 9: miscellaneous dangerous goods if transported with flammable materials. See ADG code for further information.
<b>Packaging Group</b>	None allocated
<b>Hazchem Code</b>	None allocated
<b>Special Transport Precautions</b>	None allocated

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## Section 15: REGULATORY INFORMATION

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<b>AICS</b>	All ingredients present on AICS.
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## Section 16: OTHER INFORMATION

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<b>Last Revision</b>	June, 2012
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<b>Acronyms</b>	<b>ABN</b>	Australian Business Number
	<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
	<b>ADG</b>	Australian Dangerous Goods
	<b>AEST</b>	Australian Eastern Standard Time
	<b>AICS</b>	Australian Inventory of Chemical Substances
	<b>CAS</b>	Chemical Abstracts Service Registry Number
	<b>COC</b>	Cleveland Open Cup
	<b>DG Class</b>	Dangerous Goods Class.
	<b>EPA</b>	Environment Protection Agency
	<b>Hazchem</b>	Code of numbers and letters which gives information to emergency services.
	<b>IP</b>	Institute of Petroleum
	<b>PMCC</b>	Pensky-Martens Closed Cup
	<b>NOHSC</b>	National Occupational Health and Safety Commission
	<b>SUSDP</b>	Standard for the Uniform Scheduling of Drugs and Poisons
	<b>UN Number</b>	United Nations Number

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## CONTACTPOINT

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**IMPORTANT  
DISCLAIMER**

All reasonable care has been taken to ensure that the information and advice contained herein are accurate at the time of printing. However, Royal Precision Lubricants Pty Limited accepts no tortious or contractual liability for any loss or damages suffered as a consequence of reliance on the information and advice contained herein.

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**End of MSDS**

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