



Material Safety Data Sheet

Anti Seize Nickel Compound

Hazardous Substance
Non-dangerous Goods

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Status Issued by Royal Precision Lubricants Pty Limited

COMPANY DETAILS

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PRODUCT IDENTIFICATION

Product Name Anti Seize Nickel Compound
UN Proper Shipping Name None allocated
Other Names None listed
Recommended Use High temperature antiseize grease.

Section 2: HAZARDS IDENTIFICATION

NOHSC Classification 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 R40, R43
Safety Phrases S22, S36/37

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Name | CAS | Proportion | Risk Phrases |
|--|--------------|------------|--------------|
| Solvent-dewaxed petroleum residual oil | 64742-62-7 | > 60% | - |
| Nickel powder | 7440-02-0 | 10 to 30% | R40, R43 |
| Bentone Clay Thickener | 1302-78-9 | < 10% | - |
| Other ingredients determined not to be hazardous | Not required | < 10% | - |

Section 4: FIRST AID MEASURES

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| Swallowed | DO NOT induce vomiting. Immediately wash out mouth with water, and then give plenty of water to drink. Seek medical attention. |
| Eye | Rinse eyes immediately with water for at least 15 minutes. In case of irritation, seek medical advice. |
| Skin | 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. |
| Inhaled | 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. |
| First Aid Facilities Advice to Doctor | 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. |

Section 5: FIRE FIGHTING MEASURES

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

Section 6: ACCIDENTAL RELEASE MEASURES

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| Spills Procedure | SMALL - 20 LITRES OR LESS Soak up with inert oil absorbent. Arrange for disposal through an approved facility. LARGE - GREATER THAN 20 LITRES 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. |
|-------------------------|---|

Section 7: HANDLING AND STORAGE

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| Handling | <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> |
| Storage Precautions | <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> |

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits No value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC). However, Exposure Standards for constituents are listed below.

| SUBSTANCE | TWA | | STEL | |
|-------------------|-----|-------------------|------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ |
| Oil mist, mineral | - | 5 | - | 10 |
| Nickel powder | - | 1 | - | - |

Nickel powder has an exposure limit of 1mg/m³ as an Atmospheric Contaminant [NOHSC:1003(1995)]. It is highly unlikely that the nickel powder in this product would contaminate the atmosphere as it is 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).

Biological Limit Values

No biological limit allocated.

Engineering Control

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.

Respirator Type

Avoid breathing vapours or mists. Select and use respirators in accordance with AS/NZS 1715/1716. When vapours are generated, the use 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.

Eye Protection

Chemical safety goggles are recommended. If handled hot, a full face shield should be worn.

Glove Type

Use of impervious rubber gloves are recommended.

Clothing

Clothing should be suitable to avoid product contacting the skin on a prolonged or repeated basis.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Other Properties

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| Worked Penetration (x60) @ 25°C | 290 - 320 |
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Section 10: STABILITY AND REACTIVITY

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

Section 11: TOXICOLOGICAL INFORMATION

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| Toxicology | 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). |
| Acute - Swallowed | May cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea, vomiting and diarrhoea. |
| Acute - Eye | May cause slight to moderate eye irritation, resulting in redness and stinging. |
| Acute - Skin | 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. |
| Acute - Inhaled | 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. |
| Chronic | Prolonged or repeated contact with this material may result in skin irritation leading to dermatitis. |

Section 12: ECOLOGICAL INFORMATION

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

Section 13: DISPOSAL CONSIDERATIONS

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

Section 14: TRANSPORT INFORMATION

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| UN Number | None allocated |
| UN Proper Shipping Name | None allocated |
| DG Class | 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. |
| Packaging Group | None allocated |
| Hazchem Code | None allocated |
| Special Transport Precautions | None allocated |

Section 15: REGULATORY INFORMATION

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| AICS | All ingredients present on AICS. |
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Section 16: OTHER INFORMATION

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| Last Revision | November, 2009 |
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| Acronyms | ABN | Australian Business Number |
| | ACGIH | American Conference of Governmental Industrial Hygienists |
| | ADG | Australian Dangerous Goods |
| | AEST | Australian Eastern Standard Time |
| | AICS | Australian Inventory of Chemical Substances |
| | CAS | Chemical Abstracts Service Registry Number |
| | COC | Cleveland Open Cup |
| | DG Class | Dangerous Goods Class. |
| | EPA | Environment Protection Agency |
| | Hazchem | Code of numbers and letters which gives information to emergency services. |
| | IP | Institute of Petroleum |
| | PMCC | Pensky-Martens Closed Cup |
| | NOHSC | National Occupational Health and Safety Commission |

SUSDP Standard for the Uniform Scheduling of Drugs and Poisons
UN Number United Nations Number

CONTACT POINT

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**IMPORTANT
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End of MSDS
