

Material Safety Data Sheet

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MOLYTEC NICKELTEC ANTI-SEIZE LEAD FREE PASTE

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1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name

MOLYTEC NICKELTEC ANTI-SEIZE LEAD FREE PASTE

Product Type

Nickel Anti-Seize

Company Name

MOLYTEC AUSTRALIA

Address

Unit 1, 9 Steel St. Capalaba
QLD 4157 Australia

Emergency Tel.**Telephone/Fax Number**

Tel: (07) 3245 2355

Fax: (07) 3245 2499

Recommended Use

Lead free anti-seize lubricant

2. HAZARD IDENTIFICATION

Hazard Classification

HAZARDOUS SUBSTANCE.

NON-DANGEROUS GOODS.

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
Not Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Risk Phrase(s)

R40 Limited evidence of a carcinogenic effect.

R43 May cause sensitization by skin contact.

Safety Phrase(s)

S22 Do not breathe dust.

S36/37 Wear suitable protective clothing and gloves.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization

Grease

Information on Composition

Micro sized particles of nickel in a non-melt grease with inhibitors.

Ingredients

Name	CAS	Proportion
Solvent- dewaxed petroleum residual oil	64742- 62- 7	> 60 %

Nickel Powder	7440- 02- 0	10- 30 %
Bentone Clay Thickener	1302- 78- 9	<10 %
Other ingredients determined not to be hazardous	Not required	<10 %

4. FIRST-AID MEASURES

Inhalation

Remove 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.

Ingestion

DO NOT induce vomiting. Immediately wash out mouth with water, and then give plenty of water to drink. Seek medical attention.

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.

Eye

Rinse eyes immediately with water for at least 15 minutes. In case of irritation seek medical advice.

First Aid Facilities

No special facilities required.

Advice to Doctor

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. Not that the high pressure may force the product considerable distance along tissue.

5. FIRE-FIGHTING MEASURES

Suitable 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.

Specific Hazards

Unusual Fire/Explosion Hazards: Classified as C2 (combustible liquid).

Precautions in connection with Fire

Self-Contained Breathing Apparatus and full protective clothing should be worn.

6. ACCIDENTAL RELEASE MEASURES

Clean-up Methods - Small Spillages

SMALL – 20 LITRES OR LESS

Soak up with inert oil absorbent. Arrange for disposal through an approved facility.

Clean-up Methods - Large Spillages

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.

7. HANDLING AND STORAGE

Precautions for Safe Handling

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, i.e. washing hands prior to eating, drinking, or going to the toilet. Build-up of mists in the working atmosphere must be prevented.

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.

Conditions for Safe Storage

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

The National Occupational Health and Safety Commission (NOHSC) has assigned limits for the constituents listed below.

Substance: Oil mist, mineral

TWA mg/m³: 5

STEL mg/m³: 10

Substance: Nickel powder

TWA mg/m³: 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, exposed 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 Controls

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.

Respiratory Protection

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/mite 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.

Hand Protection

Glove Type: Use of impervious rubber gloves is recommended.

Body Protection

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Form

Grease

Appearance

Smooth silver coloured grease. Negligible.

Boiling Point

>250°C

Solubility in Water

<0.1 g/l

Specific Gravity

0.90 g/cm³ approx

pH Value

N/A

Flash Point

>250°C

Other Information

Worked Penetration (x60) @ 25°C: 290-320

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Conditions to Avoid

See "Safe Handling Information" (Section 7).

Incompatible materials

Strong oxidising agents.

Hazardous Decomposition Products

Oxides of Carbon.

Hazardous Reactions

No hazardous polymerisation will occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Toxicology: The classification as a carcinogen need not apply in this case as the main constituents in this product are in accordance with Not L of the NOHSC Designated List of Hazardous Substances (containing less than 3% DMSO extract as measured by IP 346).

Inhalation

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.

Ingestion

May cause irritation to the mouth, oesophagus and stomach. Symptoms may include nausea, vomiting and diarrhoea.

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.

Eye

May cause slight to moderate eye irritation, resulting in redness and stinging.

Chronic Effects

Prolonged or repeated contact with material may result in skin irritation leading to dermatitis.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No ecotoxicological classifications.

Persistence / Degradability

This product is inherently biodegradable.

Mobility

Spillages are unlikely to penetrate the soil.

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Dispose of waste according to federal, EPA, state and local regulations. Assure conformity with all applicable regulations.

Special precautions for landfill or incineration

None allocated.

14. TRANSPORT INFORMATION

U.N. Number

None Allocated

Proper Shipping Name

None Allocated

DG Class

None Allocated

Packing Group

None Allocated

15. REGULATORY INFORMATION

Regulatory information

Classified as hazardous according to criteria of NOHSC

HAZARDOUS SUBSTANCE.

NOT SCHEDULED POISON.

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission, Australia (NOHSC).
Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Poisons Schedule

Not Scheduled

Hazard Category

Harmful,Irritant

Australia (AICS)

All ingredients present on AICS.

16. OTHER INFORMATION

Contact Person/Point

POLICE AND FIRE BRIGADE: DIAL 000

For further safety information contact Denis Brown at MOLYTEC AUSTRALIA on:

Tel: (07) 3245 2355 Fax: (07) 3245 2499

P.O. Box 5357, Alexandra Hills, QLD, Australia, 4161

Other Information

Product Size: 65g tube-M8901, 225g-M831, 226g tube-M891, 450g-M825, 2Kg-M826

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END OF SDS

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