



NEW ZEALAND MADE FOR THE TRADE

SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Nickel Anti-Seize Paste 500g
Product Code: 7445
Uses: Extreme temperature anti-seize lubricant grease
Company: Chemz Limited
Address: 80 Rangitane Place
Whakatu, Hastings
Telephone: +64 6 877 9690
Email: info@chemz.co.nz
Emergency Number 24 hr: 0800 764 766 (0800 POISON) National Poison Centre

Section 2 – HAZARDS IDENTIFICATION

Classification of the product

Considered a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ.
Classified as a dangerous goods for transport purposes.

GHS Classifications:

Skin sensitisation Category 1
Carcinogenicity Category 2
Hazardous to the aquatic environment chronic Category 1

HSNO Classifications:

6.5B Contact sensitiser
6.7B Suspected human carcinogen
9.1A Very ecotoxic in the aquatic environment with long lasting effects

Pictograms



Signal Words: Danger

Hazard Statements

H317 May cause an allergic skin reaction
H351 Suspected of causing cancer
H410 Very toxic to aquatic life with long lasting effects.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Paraffinic Mineral Oil, Highly Refined	64742-62-7	> 60
Nickel Powder	7440-02-0	10 - 30

Section 4 – FIRST AID MEASURES

If medical advice is needed, have product container or label at hand.

If exposed or if you feel unwell: Call a POISON CENTRE 0800 764 766 (0800 POISON) or doctor.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTRE or doctor. Do NOT induce vomiting. Where there is risk of vomiting, lean person forward or place on left side to avoid aspiration of product into lungs. Obtain immediate medical attention.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Skin contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice.



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Inhalation: Not considered a normal route of entry. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

Notes to physician: Treat symptomatically and supportively. No specific antidote.

Section 5 – FIRE-FIGHTING MEASURES

General fire hazards: Combustible. The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both) fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

Further advice: On burning may emit toxic fumes including those of carbon monoxide and carbon dioxide. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion.

Extinguishing media: Suitable extinguishing media are carbon dioxide, dry chemical, foam and water fog. Do not discharge extinguishing waters into the aquatic environment.

Protective equipment: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting instructions: Runoff can cause environmental damage.

Hazchem Code: 2YE

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills: Spills will be extremely slippery. Minor spills do not normally need any special cleanup measures. Clean up all spills immediately.

Major spills: Spills are extremely slippery. Evacuate the spill area. Call the Fire Brigade. Prevent spillage from entering drains or water courses. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers for disposal. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services.

Section 7 – HANDLING AND STORAGE

Handling Precautions: Read product label before use. Keep out of reach of children. Wash hands with soap and water after handling.

Storage: Store in a well ventilated, cool, dry place.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: No value assigned for product. Exposure standards for constituents (NZ WES);

Material	TWA, mg/m ³	STEL, mg/m ³
Oil Mist, Mineral	5	10
Nickel metallic (respirable dust as Ni)	0.005 _(r)	-

Additional Information: Wash hands before eating, drinking and smoking.

Engineering Controls: No controls required when handling small quantities. Use with adequate ventilation.

General exhaust is adequate under normal operating conditions. Exhaust ventilation should be designed to prevent accumulation and recirculation in the workplace. Ventilation equipment and lighting should be explosion-resistant.

Protective Equipment: General protective gloves are recommended as product may cause an allergenic reaction. In an industrial environment: chemical protective gloves, safety glasses or chemical goggles are recommended. Wash contaminated clothing before reuse.

In case of inadequate ventilation, wear respiratory protection. If TWA is exceeded, wear an approved respirator with a type A filter.



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Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Grey, flecked paste.
pH:	Not applicable.
Vapour Density:	Not applicable.
Vapour Pressure, kPa:	Not applicable.
Boiling Point, °C:	Not applicable.
Melting Point, °C:	Not applicable.
Specific Gravity:	About 0.9
Flash Point, °C:	Not applicable.
Explosion Limit, % v/v:	Not applicable.
Autoignition Temp, °C:	> 250
Penetration Index:	290 - 320 1/10 mm @ 25°C
Drop Point, °C:	Does not melt.
Solubility:	Not soluble in water.

Section 10 – STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use. Not reactive. Avoid oxidisers. Avoid elevated temperatures.
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Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment:	Information given is based on product testing, and/or similar products, and/or components.
Acute Oral Toxicity:	LD ₅₀ estimated to be > 5,000 mg/kg (based on component mixture).
Acute Dermal Toxicity:	LD ₅₀ estimated to be > 2,000 mg/kg (based on component mixture).
Acute Inhalation Toxicity:	LC ₅₀ estimated to be > 20 mg/L, Rat 4 hour (based on component mixture).
Skin Irritation:	Not classified as an irritant. Prolonged/repeated contact may cause defatting of the skin and dermatitis.
Eye Irritation:	Not classified as an eye irritant.
Respiratory Irritation:	Not classified as a respiratory irritant.
Sensitisation:	Contains a contact sensitiser which may cause a skin reaction in predisposed individuals. Toxicological checks with similar products have not revealed any skin sensitivity aggravation. Not expected to be a respiratory sensitiser.
Mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Nickel metal carries a classification as a suspected human carcinogen. It is classified as a Category 2; H351 carcinogen under GHS and CLP; and Group 2B carcinogen (possible human carcinogen) by IARC (1990). These classifications were based on the lack of human evidence of carcinogenicity, but the presence of positive results for tumour induction in animals after injection or intratracheal instillation. The recent animal study by relevant route of exposure (inhalation) showing no increased respiratory cancer risk for nickel metal powder supersedes the results from injection/instillation studies and indicates that no carcinogen classification is warranted for nickel metal (Oller et al., 2008).
Reproductive toxicity:	Not expected to be toxic.
Repeated Dose Toxicity:	Prolonged contact with product may result in irritant contact dermatitis. Avoid skin contact.



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Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity:	Very ecotoxic in the aquatic environment with long lasting effects. No environmental hazard is anticipated with small volumes of product, provided that it is handled and disposed of with due care and attention.
Mobility:	Given its physical and chemical characteristics, the product has no soil mobility.
Persistence/degradability:	Inherently biodegradable.
Bioaccumulation Potential:	Bioaccumulation is unlikely.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal:	Product wastes should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in drains or in water courses. This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable, consider controlled incineration, or landfill.
Container Disposal:	Recycle empty container if possible. Product containers are also considered wastes of the same class of the contents and should be disposed of in accordance with applicable regulations.

Section 14 – TRANSPORT INFORMATION

Transport:	Not classified as a Dangerous Good for transport purposes.
Proper Shipping Name:	Not applicable
UN Number:	Not applicable
Dangerous Goods Class:	Not applicable
Transport Labels Required:	Not applicable
Subsidiary Risk:	Not applicable
Packing Group:	Not applicable
Marine Pollutant:	Yes
EMS Number	F-A, S-A
DG Segregation:	This product is not classified as a Dangerous Goods.

Section 15 – REGULATORY INFORMATION

Inventory Listing	NZIOC (New Zealand Inventory of Chemicals); All components of this product are listed.
SDS regulations	This Safety Data Sheet was prepared in accordance with the EPA Hazardous Substances (Safety Data Sheets) Notice July 2017 (Amended April 2021).
EPA Approval Number:	HSR002607 Lubricants (Carcinogenic) Group Standard 2020.
EPA Hsno Controls:	Refer to www.epa.govt.nz for information on Controls. This substance is to be managed using the conditions specified in an applicable Group Standard.

Section 16 – OTHER INFORMATION

Additional information	Personal Protective Equipment Guidelines: The recommendation for protective equipment contained is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.
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Health Effects from Exposure: It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations

CAS	Chemical Abstract Service number
EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
EPA	Environmental Protection Agency
GHS	Globally Harmonized System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC ₅₀	Lethal Concentration, 50% / Median Lethal Concentration
LD ₅₀	Lethal Dose, 50% / Median Lethal Dose
LEL	Lower Explosion Limit
mg/m ³	Milligrams per Cubic Metre
NZIoC	New Zealand Inventory of Chemicals
N.O.S.	Not otherwise specified
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
TLV	Threshold Limit Value
TWA	Time Weighted Average
UEL	Upper Explosion Limit

This SDS summarises our best knowledge of the health and safety hazard information. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Since we cannot control the conditions under which the product may be used, each user must review this SDS in the context of how the user intends to use the product.

End of msds.