



NEW ZEALAND MADE FOR THE TRADE

SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: FG Lube 4 Penetrene Bulk (Food Grade)
Product Code: 7248 5L, 7249 20L, 7240 200L
Uses: Food grade lubricant and penetrant
Restrictions on Use: None identified
Company: Chemz Ltd
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) NZ 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.
Not classified as a dangerous goods for transport purposes.

HSNO Classifications:

6.1E Acutely toxic (aspiration hazard)

GHS Classifications:

Aspiration hazard Category 1



Signal Words: Danger

Hazard Statements

H304 May be fatal if swallowed and enters airways.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
White Oil, Mineral Refined	8042-47-5	> 60
Other ingredients determined to not be hazardous	-	to 100

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 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.
Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation occurs: Get medical advice.
Inhalation: IF INHALED: Not likely to occur except as a mist. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.
Skin contact: IF ON SKIN: Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice.



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

Section 5 – FIRE-FIGHTING MEASURES

Specific hazards: Product is a combustible liquid. May float on surface of water.

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: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

For large fires, use water spray, fog, or foam. Water may cause frothing and spattering. Do not use water jets as this may spread the fire. Do not discharge extinguishing waters into the aquatic environment.

Hazchem Code: None

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills: Clean up immediately. Eliminate sources of ignition. Particular danger of slipping on spilled product.

Major spills: Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. Move fire exposed containers away from fire area if it can be done without risk. If safe to do so, prevent spillage from entering drains or water courses. If material enters drains, advise emergency services. Use absorbent (soil, sand or other inert material). Avoid using sawdust. Collect and seal in properly labeled containers for disposal.

Section 7 – HANDLING AND STORAGE

Handling Precautions: Read product label before use. Keep out of reach of children.

This product is combustible. Prevent formation of oil mists. Avoid breathing mists. Avoid release to the environment. Wash hands with soap and water after handling.

Storage: Store in a well ventilated, cool, dry place. Keep container closed when not in use. Store locked up.

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
Mineral Oil Mist	5	10

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

Engineering Controls: No controls generally required when handling. General exhaust is adequate under normal operating conditions.

Protective Equipment: In an industrial environment: gloves, safety glasses or chemical goggles and protective gloves are recommended. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

In case of inadequate ventilation wear respiratory protection. If vapour or mists are generated by spraying or heating, wear an approved organic vapour respirator with an approved mist filter.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Clear, colourless oily liquid.

pH: No data available.

Vapour Density: No data available.

Vapour Pressure, mm Hg: < 0.01

Boiling Point, °C: No data available.

Melting Point, °C: No data available.

Specific Gravity: About 0.83.

Viscosity, mm²/s at 40°C: 14 - 17



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Flash Point, °C:	> 160
Explosion Limit, % v/v:	LEL - % UEL - %
Autoignition Temp, °C:	No data available.
Solubility:	Not soluble in water.

Section 10 – STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use. Not reactive. Avoid oxidisers. Avoid elevated temperatures.

Section 11 – TOXICOLOGICAL INFORMATION

Basis for Assessment:	Information given is based on product testing, and/or similar products, and/or components.
Acute Oral Toxicity:	Low toxicity: LD ₅₀ of mixture calculated to be > 5000 mg/kg, Rat. May be harmful if swallowed.
Acute Dermal Toxicity:	Low toxicity: LD ₅₀ of mixture calculated to be >2000 mg/kg, Rabbit.
Acute Inhalation Toxicity:	Avoid breathing mists.
Ingestion:	Ingestion is unlikely to have any toxic effects, but may act as an internal lubricant and result in diarrhoea. If vomiting occurs, aspiration may cause chemical pneumonia. May be harmful or fatal if swallowed and enters airways.
Skin Irritation:	Prolonged/repeated contact may cause dermatitis.
Eye Irritation:	Contact with eyes may cause short term discomfort.
Respiratory Irritation:	Prolonged and repeated inhalation of vapour may cause irritation to the nose and throat.
Sensitisation:	Not expected to be a sensitiser.
Repeated Dose Toxicity:	Prolonged contact with product may result in irritant contact dermatitis.
Additional Information:	None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity:	Product is slightly harmful to aquatic organisms. Acute toxicity to fish is expected to be > 100mg/L; which is considered as low acute toxicity.
Mobility:	Insoluble in water and not volatile. In soil, shows little mobility and absorption is the predominant physical process.
Persistence/degradability:	Readily biodegradable, OECD 301B test - 67% based on similarly tested materials.
Bioaccumulation:	May bioaccumulate but the bioavailability / lower solubility may reduce this potential.
Environmental Impact:	No data available.

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. Waste product should not be allowed to contaminate soil or water. Large quantities should be handled by a suitable disposal facility. Incineration in an authorised facility is suggested.
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.



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Proper Shipping Name:	Lube 4 Penetrene Liquid
UN Number:	Not applicable.
Dangerous Goods Class:	Not applicable.
Transport Labels Required:	Not applicable.
Subsidiary Risk:	Not applicable.
Packing Group:	Not applicable.
Marine Pollutant:	No
EMS Number	Not applicable.
DG Segregation:	This product is not classified as a Dangerous Goods.

Section 15 – REGULATORY INFORMATION

Inventory Listing:	All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).
EPA Approval Number:	HSR002605 Lubricants (Low Hazard) Group Standard 2017
EPA Hsno Controls:	Refer to www.epa.govt.nz for information on Controls.

Section 16 – OTHER INFORMATION

Additional information	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	AICS	Australian Inventory of Chemical Substances
	ADG	Australian Code for the Transport of Dangerous Goods by Road and Rail
	CAS	Chemical Abstract Service number
	EMS	Emergency Response Procedures for Ships Carrying Dangerous Goods
	EPA	Environmental Protection Agency (New Zealand)
	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
	NICNAS	National Industrial Chemicals Notification and Assessment Scheme (Australia)
	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



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This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Chemz Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact their Chemz representative or Chemz Limited at the contact details on page 1. Chemz Limited's responsibility for the material as sold is subject to the terms and conditions of sale.

End of sods.