SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**Chemz Penetrene Liquid**
Product Code:	7308, 7309 and 7300
Uses:	Displaces moisture, lubricates, protects, and controls corrosion.
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 as a hazardous substance according to the Hazardous Substance (Minimum Degrees of Hazard) Regulations NZ.
Classified as a dangerous goods for transport purposes.

GHS Classifications:

Flammable Liquids: medium hazard
Aspiration Hazard Category 1
STOT (single exposure) Category 3 (Narcotic)
Aquatic toxicity (Chronic) Category 2

HSNO Classifications:

3.1C	Flammable liquid
6.1E	Acutely toxic (aspiration)
6.9B	Harmful to human target organs. Narcotic (single)
9.1B	Ecotoxic in the aquatic environment with long lasting effects

Signal Words: Danger

Hazard Statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness if inhaled.
H411 Toxic to aquatic life with long lasting effects.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Aliphatic Low Aromatic Hydrocarbon	64742-82-1	30 - 60
Mineral Oil	8042-47-5	10 - 30
Butoxyethanol	111-76-2	< 10
Other ingredients determined to not be hazardous	-	to 100%

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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) or doctor.

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.

Inhalation: 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.

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.

Skin contact: IF ON SKIN: Wash with plenty of soap and water. Take off all contaminated clothing. Direct contact may cause irritation in sensitive individuals. If skin irritation occurs: Get medical advice.

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

Section 5 – FIRE-FIGHTING MEASURES

Specific hazards: Containers can build up pressure if exposed to heat and/or fire and may burst. If safe to do so, remove containers from the path of fire. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. May float and be re-ignited on surface 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. Use water spray to keep fire-exposed containers cool.

Extinguishing media: Use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Do NOT use straight streams of water. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment.

Hazchem Code: 3Y

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills: Clean up all spills immediately. Remove all sources of ignition. If safe, damaged containers should be placed in a container outdoors, away from all ignition sources. Provide ventilation. Wash with water.

Major spills: Evacuate the spill area. Call the Fire Brigade. Remove all sources of ignition. 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). 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 highly flammable. Keep away from heat and open flames/hot surfaces. No smoking. Do not use near an open flame or other ignition source.

Use outdoors or in well-ventilated area. Avoid breathing vapour. Beware: Deliberately sniffing or inhaling concentrated contents can be harmful or fatal.

Wash hands with soap and water after handling. Avoid release to the environment.

Storage: Protect from sunlight. Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Keep container tightly closed. 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
Aliphatic Low Aromatic Hydrocarbon (supplier)	525	-
Mineral Oil (oil mist)	5	10
Butoxyethanol (skin)	25	-

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

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

Larger quantities: General exhaust is adequate under normal operating conditions. Ventilation, lighting and electrical equipment should be explosion-resistant. Use only non-sparking tools. Take precautionary measures against static discharge.

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 TWA is exceeded, wear an approved respirator with a type A filter.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Clear, almost colourless liquid.

Odour: Slight hydrocarbon odour.

pH: Not applicable.

Vapour Density: > 1 (Air =1)

Vapour Pressure, kPa: About 0.25 @ 20°C.

Boiling Point, °C: About 160

Melting Point, °C: Not applicable.

Specific Gravity: About 0.80

Flash Point, °C: About 40

Explosion Limit, % v/v: **LEL** 1% **UEL** 7%

Autoignition Temp, °C: 200

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 > 5,000 mg/kg, Rat.

Acute Dermal Toxicity: Low toxicity: LD_{50} of mixture calculated to be > 2000 mg/kg, Rabbit.

Acute Inhalation Toxicity: Low toxicity: LC_{50} of mixture calculated to be > 20 mg/L, Rat 4 hours

Skin Irritation: May cause mild skin irritation in sensitive individuals. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Eye Irritation: Vapours may be irritating to the eye. Contact with eyes is mildly irritating causing short term discomfort. Avoid contact with eyes.

Respiratory Irritation:	Inhalation of vapour may cause irritation to the nose and throat. Prolonged inhalation of large quantities of vapour will result in moderate discomfort. Symptoms of over-exposure can include dizziness, nausea, headaches and other central nervous system effects.
Sensitisation:	Not expected to be a sensitiser.
Repeated Dose Toxicity:	Prolonged contact with product may result in irritant contact dermatitis. May cause damage to organs through prolonged or repeated exposure.
Mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Not expected to be carcinogenic.
Reproductive toxicity:	Not expected to be toxic.
Specific Target Organ Toxicity:	May be harmful to human target organs or systems.
STOT (Narcotic):	Prolonged Inhalation at high concentrations may cause drowsiness or dizziness (narcotic).
Other Health Effects:	Prolonged or repeated exposure to high concentrations may result in temporary hearing loss.
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 harmful to aquatic organisms with possible long lasting effects with continuous exposure.
Mobility:	Floats on water. Highly volatile and will evaporate to air. Some components show low soil mobility.
Persistence/degradability:	Expected to be biodegradable. Can rapidly degrade in air. Some components may be persistent.
Bioaccumulation:	Not expected to significantly bioaccumulate.

Section 13 – DISPOSAL CONSIDERATIONS

Material Disposal:	Product wastes are ecotoxic and should be disposed of in accordance with applicable regulations. Do not dispose into the environment, in landfill, in drains or in water courses. Waste product should not be allowed to contaminate soil or water. Larger quantities should be handled by a suitable disposal facility. Incineration in an authorised facility is suggested.
Container Disposal:	Recycle empty container in an approved recycling stream. Product containers are considered wastes of the same class as the contents and should be disposed of in accordance with applicable regulations.

Section 14 – TRANSPORT INFORMATION

Transport:	Classified as a Dangerous Good for transport purposes.
Proper Shipping Name:	HYDROCARBONS, LIQUID, N.O.S.
UN Number:	3295
Dangerous Goods Class:	3
Transport Labels Required:	Class 3 Flammable (Land, Sea and Air), EHSM (Sea and Air)

Land, Sea, Air

Sea, Air

Subsidiary Risk:	Not applicable
Packing Group:	III

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Marine Pollutant: Yes

EMS Number F-E, S-D

DG Segregation: This product is classified as a Dangerous Goods. Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

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.

EPA Approval Number: HSR002650 Solvent (Flammable) 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 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 (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
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 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 sds.