



NEW ZEALAND MADE FOR THE TRADE

SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Z7 Brakeclean Liquid
Product Code: 7818, 7819 & 7810
Uses: Brake, clutch and industrial parts cleaner.
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 (land, sea and air).

HSNO Classifications:

3.1B Flammable Liquids: high hazard
6.1D Acutely toxic (Harmful)
6.1E (Asp) Acutely toxic (aspiration)
6.3A Irritating to the skin
6.4A Irritating to the eye
6.7A Known or presumed human carcinogen
6.9B (O, I) Harmful to human target organs or systems (oral, inhaled)
9.1B Ecotoxic in the aquatic environment
9.3C Harmful to terrestrial vertebrates

GHS Classifications:

Flammable Liquids Category 2
Acute toxicity: oral Category 4
Aspiration hazard Category 1
Skin irritation Category 3
Eye irritation Category 2B
Carcinogenicity Category 1A
STOT (single exposure) Category 2
Aquatic toxicity (Acute) Category 2
Ecotoxic to terrestrial vertebrates



Signal Words: Danger

Hazard Statements

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H320 Causes eye irritation.
H350 May cause cancer.
H371 May cause damage to organs if swallowed or by inhalation.
H411 Toxic to aquatic life with long lasting effects.
H433 Harmful to terrestrial vertebrates.



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SAFETY DATA SHEET

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Heptanes	64742-89-8	30 - 60
Methylene Chloride	75-09-2	10 -30
Perchloroethylene	127-18-4	10 - 30
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.

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/attention.
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. Direct contact may cause irritation in sensitive individuals. If skin irritation occurs: Get medical advice/ attention.
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 may burst. Vapours may form an explosive mixture with air and can travel to a source of ignition and flash back. May 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:	For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do not discharge extinguishing waters into the aquatic environment. Do NOT use straight streams of water.
Hazchem Code:	3WE

Section 6 – ACCIDENTAL RELEASE MEASURES

Minor spills:	Clean up all spills immediately. Remove all sources of ignition. If safe to do so, damaged containers should be placed in a container outdoors, away from all ignition sources. Do not breathe vapours. Provide ventilation.
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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep out of reach of children.
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SAFETY DATA SHEET

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. Wash hands with soap and water after handling.

Storage: 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
Heptanes (supplier)	600	1,600
Methylene Chloride _{6.7B}	174	-
Perchloroethylene _{6.7A}	335	1005

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

Engineering Controls: No controls required when handling small quantities. Do not breathe vapours. 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: Use personal protective equipment as required. 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 colourless liquid.

pH: Not applicable.

Vapour Density: > 1 (Air =1)

Vapour Pressure, kPa: Not determined

Boiling Point, °C: > 40

Melting Point, °C: Not applicable.

Specific Gravity: About 0.95

Flash Point, °C: < 0

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: LD₅₀ of mixture calculated to be > 3,614 mg/kg, Rat. Slightly toxic.

SAFETY DATA SHEET

Acute Dermal Toxicity:	Low toxicity: LD ₅₀ of mixture calculated to be > 5,000 mg/kg, Rabbit. Low toxicity.
Acute Inhalation Toxicity:	High concentrations may cause drowsiness or dizziness and lead to central nervous system depression resulting in headaches and nausea.
Aspiration Hazard:	May be fatal if swallowed and enters airways.
Skin Irritation:	May cause skin irritation and defatting of the skin which can lead to dermatitis.
Eye Irritation:	Vapours may be irritating to the eye. Contact with eyes may cause short term discomfort.
Respiratory Irritation:	Inhalation of vapour may cause irritation to the nose and throat.
Sensitisation:	Not expected to be a sensitiser.
Carcinogenicity:	WARNING: A material in this product has been classified by the IARC as Group 2A: Probably Carcinogenic to Humans.
Repeated Dose Toxicity:	Central nervous system: repeated exposure may affect the nervous system. Prolonged contact with product may result in irritant contact dermatitis.

Section 12 – ECOTOXICITY INFORMATION

Ecotoxicity:	Product is harmful to aquatic organisms with long lasting effects. Experimental data on the finished product are not available.
Mobility:	Floats on water. Volatile. Some components show low soil mobility.
Persistence/degradability:	Not readily biodegradable. Some components may be persistent.
Bioaccumulation:	Has the potential to 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 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 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:	FLAMMABLE LIQUID, TOXIC, N.O.S. (contains Heptanes, Methylene Chloride, Perchloroethylene)
UN Number:	1992
Dangerous Goods Class:	3
Subsidiary Risk:	6.1
Transport Labels Required:	Class 3 Flammable, Class 6 Toxic, Marine Pollutant



Packing Group:	II
Marine Pollutant:	Yes
EMS Number	F-E, S-D
Limited Quantity:	1 L



NEW ZEALAND MADE FOR THE TRADE

SAFETY DATA SHEET

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

EPA Approval Number: HSR002652 Solvents (Flammable, Toxic [6.7]) Group Standard 2017
This substance is to be managed using the conditions specified in an applicable Group Standard.

SDS regulations This Safety Data Sheet was prepared in accordance with the EPA Hazardous Substances (Safety Data Sheets) Notice July 2017.

Inventory Listing: NZIOC (New Zealand Inventory of Chemicals); All components of this product are listed.

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

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.