



NEW ZEALAND MADE FOR THE TRADE

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Z7 Brakeclean Liquid 5L, 20L, 200L

**Product Code:** 7818 & 7819 & 7810

**Recommended Use:** Brake, Clutch & Industrial Parts Cleaner

**Supplier:** Chemz Ltd  
PO Box 8895  
Havelock North 4157  
New Zealand

**Telephone Number:** +64 6 877 9690

**Emergency Telephone:** 111

**New Zealand Poisons Centre:** 0800 764 766 (0800POISON)

**Australian Poisons Centre:** 13 1126 (from anywhere in Australia)

## 2. HAZARDS IDENTIFICATION

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.  
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

**Subclasses:** Subclass 3.1 Category B - Flammable Liquids.  
Subclass 6.1 Category D - Substances which are acutely toxic  
Subclass 6.3 Category A - Substances that are irritating to the skin.  
Subclass 6.4 Category A - Substances that are irritating to the Eyes.  
Subclass 6.7 Category A - Substances that are carcinogenic.  
Subclass 6.9 Category B - Substances that are harmful to human target organs or systems  
Subclass 9.1 Category A - Substances that are Toxic to aquatic organisms.  
Subclass 9.2 Category C - Substances that are harmful in the soil environment  
Subclass 9.3 Category B - Substances that are ecotoxic to terrestrial vertebrates

### Hazard and Precautionary Information:

Danger

Highly flammable liquid and vapour. May be harmful in contact with skin. Causes eye irritation. May be harmful if inhaled. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to terrestrial vertebrates.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Keep away from heat/sparks/open flames/hot surfaces No smoking.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS Number	Proportion, %	WES TWA, mg/m <sup>3</sup>	WES STEL, mg/m <sup>3</sup>
Heptanes (Paraffinic HC Solvent)	64742-89-8	30 - 60	1600 (Supplier)	Not established
Methylene Chloride	75-09-2	10 - 30	50 ppm	Not established
Perchloroethylene	127-18-4	10 - 30	170	685
Non hazardous ingredients		to 100		



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### 4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone New Zealand 0 800 764766) or a doctor.

**Inhalation:**

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Seek immediate medical advice.

**Skin Contact:**

If skin contact occurs, remove contaminated clothing and wash skin with running water. If irritation occurs seek medical advice.

**Eye Contact:**

If in eyes, wash out immediately with water. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Ingestion:**

Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

**Medical attention and special treatment:**

Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

**Specific hazards:** Containers can build up pressure if exposed to heat and/or fire and may explode. Wear self-contained breathing apparatus and full protective gear. Vapors may form an explosive mixture with air. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Use water spray to keep fire-exposed containers cool.

**Further advice:** On burning may emit 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 alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

### 6. ACCIDENTAL RELEASE MEASURES

**Minor spills:** Clean up immediately. Remove all sources of ignition. Provide ventilation. Wash with water.

**Major spills:** Contain and prevent run off into waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal.



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### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Keep away from heat/sparks/open flames/hot surfaces No smoking. Do not breathe mist/vapours/spray\*. Use only outdoors or in a well-ventilated area. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection\*. Wear protective gloves/protective clothing/eye protection/face protection\*. Use personal protective equipment as required.

**Storage:** Store in a well ventilated, cool, dry place. Keep away from heat, sparks, and flame. Keep away from sources of ignition.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** No value assigned for this specific material by the New Zealand Occupational Safety and Health Service (OSH). However:

**Heptanes : WES TWA, 1600mg/m<sup>3</sup>**

**Methylene chloride : WES TWA, 49mg/m<sup>3</sup>**

**Perchloroethylene : WES TWA, 169mg/m<sup>3</sup>**

No Exposure Standards assigned to other constituents.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

Asphyxiant - gases which can lead to reduction of oxygen concentration by displacement or dilution. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### **Engineering controls:**

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Use in well ventilated areas. Keep containers closed when not in use. An asphyxiant gas which can lead to the displacement or dilution of oxygen. The minimum oxygen content in air should be 18% by volume under normal atmospheric pressure.

#### **Personal Protective Equipment:**

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Wear clean overalls, safety boots, general purpose gloves (PVC) and safety spectacles. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. For leaking cans: Wear clean overalls, safety boots, general purpose gloves (PVC) and full face visor. If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**FOR CONSUMER USE:** Wear rubber gloves and eye protection while handling the product. Wash hands after use.



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Clear, almost colourless, volatile liquid with a characteristic odour.
<b>pH:</b>	Not applicable
<b>Vapour Density:</b>	1.2 (Air =1)
<b>Vapour Pressure, kPa:</b>	12
<b>Boiling Point, °C:</b>	64
<b>Melting Point, °C:</b>	Not applicable.

### 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under normal conditions of use.

**Conditions to avoid:** Avoid exposure to heat, sources of ignition, and open flame.

**Incompatible materials:** Incompatible with oxidising agents.

**Hazardous decomposition products:** Oxides of carbon.

**Hazardous reactions:** Hazardous polymerisation will not occur.

### 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Ingestion:** Swallowing can result in nausea, vomiting and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung).

**Eye contact:** May be an eye irritant.

**Skin contact:** Contact with skin may result in irritation. Will have a degreasing action on the skin. Repeated or prolonged skin contact may lead to irritant contact dermatitis.

**Inhalation:** Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness. Intentional misuse by deliberately concentrating and breathing the contents can be harmful or fatal.

**Long Term Effects:** No information available for the product.

**Toxicological Data:** No LD50 data available for the product.

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Avoid contaminating the environment.

### 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Refer to Waste Management Authority. Advise flammable nature. Do not puncture or burn can when empty. Normally suitable for disposal at approved land waste site.



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### 14. TRANSPORT INFORMATION

#### Road and Rail Transport:

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

**Proper Shipping Name:** Flammable Liquid, N.O.S.

**Dangerous Goods Class:** 3

**UN Number** n/a

**Subsidiary Risk** 6.1

**Packing Group** II

**Hazchem Code** 3YE

Class 3: should not be loaded on the same vehicle as Classes 1, 2.1, 2.3, 4.2, 5.1, 5.2 and 7. They may be loaded with Classes 2.2, 4.1, 6.1, 6.2, 8 and 9.

### 15. REGULATORY INFORMATION

Classified as a Dangerous Good according to NZS 5433:2007 Transport of Dangerous Goods on Land.

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**Subclasses:** Subclass 3.1 Category B - Flammable Liquids.  
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### 16. OTHER INFORMATION

For further copies of this sheet or other product information contact Chemz LTD.

#### Reason(s) for Issue:

Revised Primary MSDS

Change to Poisons Requirements

This MSDS 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.