SAFETY DATA SHEET

Section 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	**RW Cleaner Bulk Liquid**
Product Code:	7159 20L, 7158 5L, 7150 200L
Uses:	Heavy duty Industrial and electronic equipment cleaner, residue free.
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) 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 Category 2
Aspiration hazard Category 1
Eye irritation Category 2
Skin sensitisation Category 1
Aquatic toxicity (Chronic) Category 2

HSNO Classifications:

3.1B	Flammable Liquids: high hazard
6.1E	Acutely toxic (aspiration)
6.4A	Irritating to the eye
6.5B	Contact sensitiser
9.1B	Toxic in the aquatic environment

Signal Words: Danger

Hazard Statements

H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Section 3 – COMPOSITION INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS No.	Proportion, % m/m
Solvent Naphtha Aliphatic	64742-49-0	30 - 60
2-Propanol	67-63-0	10 - 30
Dipentene	138-86-9	10 - 30
Other ingredients determined to be non-hazardous	-	to 100

SAFETY DATA SHEET

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. Obtain immediate medical 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.

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.

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/or fire and may burst. 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 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. 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: 3YE

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. Wash area down with excess water.

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 a well-ventilated area. Avoid breathing vapour. 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.

SAFETY DATA SHEET

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Material	TWA, mg/m³	STEL, mg/m³
Solvent Naphtha Aliphatic	1,640	2,050
2-Propanol	983	1,230

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

Engineering Controls: No controls 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 colourless liquid.

pH: Not applicable.

Vapour Density: > 1 (Air =1)

Vapour Pressure, kPa: About 9

Boiling Point, °C: About 90

Melting Point, °C: Not applicable.

Specific Gravity: About 0.74

Flash Point, °C: - 15

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: LD_{50} of mixture calculated to be > 5,000 mg/kg, Rat. May be harmful if aspirated into lungs.

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

Acute Inhalation Toxicity: LC_{50} of mixture calculated to be > 20 mg/L Rat 4 hour.

Skin Irritation: May cause skin irritation. Prolonged/repeated contact may cause contact dermatitis.

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

Respiratory Irritation: Inhalation of vapours or mists may cause irritation to the respiratory system.

Sensitisation: Contains a contact sensitiser.

Mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Not expected to be a known or presumed carcinogen.
Reproductive toxicity:	Not expected to be a human reproductive toxicant.
Effects on or via lactation:	Not expected to be toxic effects on or via lactation.
Specific Target Organ Toxicity:	Not expected to be harmful to human target organs or systems.
STOT (Narcotic):	Prolonged inhalation of vapours may cause dizziness.
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 harmful to aquatic organisms with long lasting effects.
Mobility:	Floats on water. Volatile in air. Some components show low soil mobility.
Persistence/degradability:	Expected to be 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 if possible in an approved recycling stream. 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, N.O.S.
UN Number:	1993
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:	II
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

SAFETY DATA SHEET

Inventory Listing:	All components of this product are listed on the New Zealand Inventory of Chemicals (NZIoC).
SDS regulations	This Safety Data Sheet was prepared in accordance with the EPA Hazardous Substances (Safety Data Sheets) Notice 2017 (Consolidated 30 September 2022).
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

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.

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
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.