



P.O Box 40604
Upper Hutt 5140
New Zealand
Phone 64 4 5285071
Fax 64 4 5285074
www.rubbersolutionsap.co.nz.

Rubbersolutions Asia-Pacific Ltd

SAFETY DATA SHEET

Z33 Vulcanising Solution

1. IDENTIFICATION

Product Name: Z33 Vulcanising Solution

Other Names: Aliphatic hydrocarbon

Chemical 'Family: Aliphatic, cycloparahinic hydrocarbon

Molecular formula: N/A

Recommended Use: Retreading of TBR, LT, & PC casings & vulcanisation of conveyor belts

Supplier: Rubber Solutions Asia-Pacific Ltd

ABN: PO Box 40-604 Upper Hutt

Street Address: South Pacific Industrial Park, Railway Ave, Upper Hutt

Telephone: 64-4-5285071

Fax: 64-4-5285074

Emergency phone: 027-2274026

All other inquiries: 027-2274026

2. HAZARDS IDENTIFICATION

Product is classified as hazardous according to Schedules 1 to 6 of the *Hazardous Substances (minimum Degrees of Hazard) Regulations 2001* of the HSNO Act, 1996.

HSNO Classifications: 3.1B, 6.1E, 6.3A, 6.9, 9.1B

Signal word: DANGER



Risk Phrases:

HH03 Harmful if swallowed

HH32 Harmful if inhaled

HH19 Causes eye irritation

HH20 May cause an allergic skin reaction

HP44 Extremely flammable liquid & vapour

Safety Phrases:

PP10 Keep away from ignition sources such as heat/sparks/open flame/hot surfaces. No smoking

PP31 Keep cool & protect from sunlight

PP44 Use explosion-proof electrical/ventilating/lighting equipment

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PP60 Do not breathe dust/fumes/gas/mist/vapours/spray
P243 Take precautionary measures against static discharge
P261 Do not breathe dust/fumes/gas/mist/vapours/spray
P264 Wash hands thoroughly after using
P271 Use only outdoors or in well-ventilated area
P273 Avoid release to the environment
P280 Use protective gloves, protective clothing and eye protection
PP61 Call a POISON CENTRE or Doctor if exposed or if you feel unwell

Dangerous Goods Classification: 3

Poisons Schedule

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	Proportion (%v/v)
Heptanes and isomers		32.0-36.0
Cyclohexane	110-82-7	25.0-27.0
n-hexane	110-54-3	15.0-20.0
Methyl Cyclohexane	108-87-2	3.0-7.0
Rubber Compound		8.0

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone: 0800 Poison 764 766) or a doctor.

Ingestion:

If swallowed do NOT induce vomiting...give water. Use mouth to nose rather than mouth to mouth with artificial respiration. Obtain medical attention

Eye Contact:

Hold eyelids apart & flush the eye continuously with running water. Continue for at least 15 minutes or till advised by National Poisons Centre (0800 746 766)

Skin Contact:

If skin or hair contact occurs, remove contaminated clothing & flush as above with water

Inhalation:

Move to fresh air immediately. Keep person warm and at rest in a position comfortable for breathing. If respiratory irritation, dizziness, nausea or unconsciousness occurs, seek immediate medical assistance. Begin artificial respiration if breathing stopped

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First Aid facilities:

Provide eye baths & safety showers close to areas where splashing may occur.

Medical Attention:

Treat according to symptoms. Gastric lavage may be indicated if ingested. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis, treat appropriately. General measures should be taken to control acidosis & maintain urine output.

This product contains light hydrocarbon material, or a component, may be associated with cardiac sensitisation following very high exposure (well above occupational exposure limits) or with concurrent exposure to high stress levels or heart stimulating substances like epinephrine. Administration of such substances should be avoided.

5. FIRE FIGHTING MEASURES

Evacuate area. Shut off product that may fuel a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable extinguishing media:

Dry chemical, Carbon Dioxide or foam

Hazards from combustion products:

Carbon Dioxide & carbon monoxide

Precautions for fire fighters and special protective equipment:

Full protective clothing, and in enclosed spaces wear self-contained breathing apparatus (SCBA). Vapour is flammable and heavier than air. Vapour may travel across the ground and reach remote sources of ignition causing a flashback fire danger

Hazchem Code:

3YE

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent fluid from escaping to drains & waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined spaces. Ensure drain valves are closed



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Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition
- Warn occupants of downwind areas of possible fire & explosion hazard
- Prevent liquid from entering sewers, watercourses, or low-lying areas
- Keep public away from the area
- Shut off the source of the spill if possible to do so
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation
- Take measures to minimise the effect on ground water
- Contain spilled liquid with sand or earth
- Consult an expert on disposal of recovered material & ensure conformity to disposal rules

Major Water Spill

- Eliminate any source of ignition
- Warn occupants & shipping in downwind areas of possible fire & explosion hazard
- Notify the port or relevant authority & keep public away
- Shut off the source of spill if possible & safe to do so
- Confine spill if possible
- Remove the product from the surface by skimming or with absorbent material
- Consult an expert on disposal & ensure conformity to local regulations of disposal

7. HANDLING AND STORAGE

Precautions for safe handling

This product is flammable. Do NOT open near open flame, sources of heat or ignition

No smoking

Keep container closed & handle with care.

Conditions for safe storage

Store in a cool, dry place away from direct sunlight. Do not cut, heat or weld containers

Incompatible materials

Butyl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

Time weighted average (TWA) is 600mg/m³ (159 ppm)

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Short term exposure limit (STEL) is not specified, which is the max allowable exposure concentration at any time

Biological limit values

For guidance; n-hexane in urine, 0.4 mg/L (as 2,5-hexanedione without hydrolysis)

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Lab samples should be handled in a fume hood. Use explosion proof ventilation equipment.

Personal Protective Equipment

Respiratory Protection:

Where concentrations in air may exceed the limits described in the National Exposure Standards it is recommended to use a half-face mask to avoid inhalation. Type 'A' filter material to be used

Eye Protection:

Always use safety glasses or face shield when handling this product

Skin/Body Protection:

Long sleeves & long trousers recommended with enclosed footwear or safety boots
Chemical resistant gloves to be used

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance		Black viscous liquid
Boiling Point	°C	75-115
Flash Point	°C	-15
Density @ 15 °C	g/ml	0.72
Vapour Pressure @ 20 °C	kPa	8.65
Explosive Limits (LEL-UEL)	%	1-7
Vapour Density @ 20 °C	kPa	N/A
Autoignition Temperature	°C	>200
Viscosity @ 20 °C	cSt	N/A
Percent Volatiles	%	100
Solubility with Water	%w/w	<0.10

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The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Chemical Stability

Stable @ room temperature

Conditions to avoid

Sources of heat & ignition, open flame

Hazardous decomposition products

No decomposition products except on burning

Hazardous reactions

Oxidising agents, mineral acids. phosphorous & chlorine

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Produces hallucinations & narcotic effects...drowsiness with volume ingestion. .fatigue, loss of appetite, paresthesia in distal extremities, muscle weakness, cold pulsation in extremities, blurred vision, headache & nausea. Vomiting may cause this product to be aspirated to the lungs resulting in chemical pneumonitis or pulmonary oedema

Eye Contact

This product is irritating to the eyes but will not permanently damage eye tissue

Skin Contact

Irritating...may result in cracking & dryness

Inhalation

Irritating to respiratory tract. Large concentrations may cause muscle weakness, tingling extremities, , blurred vision, headaches, nausea, loss of appetite, hallucinations, act as an anaesthetic and may have other central nervous system effects

Chronic Effects

Possible damage to peripheral nervous system, possibly arms & legs



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Other Health Effects Information

Contains n-hexane with experimental teratogenic & reproductive effects Use in conjunction with MEK will greatly enhance effects

Toxicological Information

n-hexane: 28710mg/kg (oral, rat)

12. ECOLOGICAL INFORMATION

Eco toxicity

Aquatic Toxicity

Fish Toxicity (rainbow trout, goldfish, bluegill). ...LC50(96hr). .toxic to aquatic organisms Bluegreen algae...possible with continuous exposure

Persistence/degradability

Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air

Mobility

Highly volatile & rapidly evaporates to the air if released into water

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty-packaging-to recycling, recovery or disposal through qualified contractor...ensure empty packaging allowed to dry first

Special Precautions for Landfill or Incineration

NOT suitable for landfill. Ashless & can be burned in appropriate equipment



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14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3295	UN No	3295	UN No	3295
Proper Shipping Name	100% Liquid Hydrocarbon	Proper Shipping Name	100% Liquid Hydrocarbon	Proper Shipping Name	100% Liquid Hydrocarbon
DG Class	3	DG Class	3	DG Class	3
Sub Risk	None	Sub Risk	None	Sub Risk	None
Pack Group	II	Pack Group	II	Pack Group	II
Hazchem	3YE	Hazchem	3YE		

Dangerous Goods Segregation

Product classified as DG Class 3, packing group II. Please consult the Land Transport Rule: DG2005 & NZS 5455: 1999 Transport of Dangerous Goods on Land for information

15. REGULATORY INFORMATION

Country/Region: New Zealand

Inventory: NZCIC

Status: Listed

Poisons Schedule: None established

16. OTHER INFORMATION

Reasons for issue: Change heading from MSDS to SDS.

Abbreviations:

NZCIC. NZ Chemical Industry Council

CAS Number: Chemical Abstracts Number



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References:

- Supplier Material Safety Data Sheets
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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Rubber Solutions Asia-Pacific Ltd.

Link to: [Rubber Solutions web page](#)