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VERSION NO. : 1

PAGE : 1 OF VARIABLE

Mainland Printing Inks  
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## Safety Data Sheet

### 1. Identification Of The Material & Supplier

**Product Name :** Resene Vinylside Basecoat Chrome

**Other Names(s) :**

**Chemical Formula :** ML. Product No. ML. R/M Code ML. R/M No.  
52836 etc...

**Use or Description :** Screen printing ink for vinyl curtain sider substrates. Refer Data Sheet for specific substrate recommendations.

**Suppliers Name :** Mainland Printing Inks,  
**Street Address :** 351 Selwyn Street, P.O.Box 12-171, Christchurch 8242, New Zealand.  
**Telephone :** +64 3 338 6321  
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**Emergency Telephone :** National Poisons & Hazardous Chemicals  
Information Centre : 0800 POISON (0800 764 766)  
NZ Emergency Services : Dial 111 (if in doubt)  
Mainland Managing Director, Mr T.P.Clemence : Bus +64 3 338-6321  
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### 2. Hazards Identification

**Hazard Classification:**

- 3.1C - Flammable Liquid: Medium Hazard.
- 6.1D - Harmful if inhaled.
- 6.3A - Substance that is irritating to the skin.
- 6.4A - Substance that is irritating to the eye.
- 6.5A - Substance that may cause allergy or asthma symptoms or breathing difficulties if inhaled.
- 6.7B - Substance that is suspected of causing cancer.
- 6.8A - Substance that may damage fertility or the unborn child.
- 6.9B - Substance that causes damage to organs through prolonged or repeated exposure.
- 9.1A - Substance that is very toxic to aquatic life.

**Hazard statement codes:**

- H226 Flammable liquid and vapour.
- H332 Harmful if inhaled.
- H315 Causes skin irritation.
- H320 Causes eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H353 Suspected of causing cancer.
- H354 May damage fertility or the unborn child.
- H363 Causes damage to organs.
- H401 Very toxic to aquatic life.

**Precautionary statement codes - prevention:**

- P102 Keep out of reach of children.
- P103 Read label before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.

- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breath dust / fume / gas / mist / vapours / spray.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P264 Wash skin thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P285 In case of inadequate ventilation wear respiratory protection.

**Precautionary statement codes - Response**

- P101 If medical advice is needed, have product container or label at hand.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P303 + P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
- P304 + P340 If inhaled; Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a poison centre or doctor/physician if you feel unwell.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P308 + P313 If exposed or concerned: Get medical advice/attention.
- P342 + P311 If experiencing respiratory symptoms: Call a poison centre or doctor/physician.
- P370+P378 In case of fire: Use foam, carbon dioxide or dry chemical.
- P391 Collect spillage.

**Precautionary statement codes - Storage:**

- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

**Precautionary statement codes - Disposal:**

- P501 Disposal of this substance must be in accordance with the Hazardous Substances (Disposal) Regulations 2001 with reference to all Council regulations. This may also include any method of disposal that must be avoided.

### 3. Composition / Information On Ingredients

Potentially Hazardous Ingredients	% by weight (approx)	TLV (TWA)		STEL (TWA)		Note CAS No.
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
Cyclic Aliphatic Ketone	1-3	100	25			108-94-1, 64742
Aromatic/Aliphatic	30-40	150	skin 20			-95-6,
Cyclic Amide	15					872-50-4, 1344
Lead sulfochromate	6- 12	0.05.				-37-2

### 4. First Aid Measures

- Inhalation** Remove from further exposure. If unconsciousness occurs, seek immediate medical assistance and call a physician. If breathing has stopped, use a demand valve resuscitator or mask with mouth to mouth resuscitation. Transport to hospital, or doctor.
- Skin Contact** Wash contact areas with soap and water. Seek medical assistance for irritation or any other symptoms. Launder contaminated clothing before reuse.
- Eye Contact** Flush effected eye(s) thoroughly with water for at least 15 minutes. Seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
- Ingestion** If swallowed, refer for medical attention, where possible, without delay. Hospital treatment is likely to be needed. Where medical attention is not immediately available induce vomiting with fingers down the back of the throat, Only if conscious. Lean patient forward or place on left side (head down position, if possible). Material if aspirated into the lungs may cause chemical pneumonitis.

**Health Hazard :**

## Information

Lead is distributed to the red blood cells and has a half-life of 35 days. Neurasthenic symptoms are the most common symptoms of intoxication. Lead toxicity produces a classic motor neuropathy. Establish a patent airway with suction where necessary. Watch for signs of respiratory insufficiency and assist ventilation as necessary. Administer oxygen by non-rebreather mask at 10 to 15 l/min. Monitor and treat, where necessary, for pulmonary oedema and shock. Anticipate seizures. Do not use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water for dilution where patient is able to swallow, has a strong reflex and does not drool.

## 5. Fire Fighting Measures

### Extinguishing Media to be used

- Foam                       Dry Chemical     Water Spray  
 Carbon Dioxide     Alcohol Foam     Other...

### Special Fire Fighting Procedures

Fire fighters must use recommended protective equipment and self contained breathing apparatus. Cool storage drums with water spray. Use water spray to disperse vapours and protect personnel attempting to stop leaks. Vapour is heavier than air and may travel a considerable distance to a source of ignition and flash back.

### Unusual Fire and Explosion Hazards

Flammable liquid. Vapour density heavier than air. Vapour accumulation could flash and/or explode if ignited. Can react vigorously with oxidizing materials.

## 6. Accidental Release Measures

### Spill and Leak Procedure

Remove leaking containers to a detached area. Bund spill area and absorb spilled product with inert material (e.g. sand, earth etc.) Transfer remaining product in leaking container to a new container and solid absorbent materials to separate container for disposal. Dispose of waste at an appropriate waste disposal facility in accordance with local authority bylaws, the Local Government Act 1974 and the regulations made therein. If contamination of drains or waterways occurs, advise emergency services. Avoid breathing fumes and any contact with skin and eyes.

## 7. Handling & Storage

### Handling

Use in well ventilated area away from all ignition sources. Wear chemical-type goggles. Approved respiratory protective equipment must be used when vapour or mist concentrations exceed established Threshold Limit Values. Avoid all personal contact, including inhalation. Do not enter confined spaces until atmosphere has been checked. Keep containers securely sealed when not in use. Always wash hands with soap and water and launder work clothes separately.

### Storage

Ground and bond all transfer and storage equipment. Drums must be grounded and bonded and equipped with self closing valves, pressure vacuum bungs and flame arresters. Outside or detached storage preferred. Store containers in a cool area away from all ignition sources. Keep away from strong oxidants.

## 8. Exposure Control / Personal Protection

### Recommended Personal Protective Equipment to be worn during use of product: (X)

- Protective Overalls                       Synthetic Apron  
 Safety Glasses                               Vapour Respirator  
 Splash Goggles                               Dust & Vapour Respirator  
 Face Shield                                       Full Protective Suit  
 Airline Hood or Mask                       Boots  
 Gloves     Other

## 9. Physical And Chemical Properties

### Appearance and Odour

Various colours. Aromatic odour.

### Density

0.950 to 1.100

### Viscosity

Paste

### Vapour Pressure, mm Hg at 20°C

NE

### Vapour Density (Air=1)

>1

### Melting Point/Freezing Point, °C

NE

### Aniline Point, °C (Mixed)

NE

### Refractive Index, @ 20°C

NE

### Residue On Evaporation, mg/100ml

50-70 % approx.

### Boiling Range, °C

NE

### Flash Point °C Method

> 41

### Evaporation Rate (BuAc=100)

NE

### % Volatile Matter (by weight)

50-60% approx.

### Solubility in Water

Negligible

### Aromatics, %

< 40 %

### Colour

Various

### pH

NA

### Auto Ignition Temperature, °C

>270

### Flammability Limit, %vol

### Lower (LEL)

NE

### Upper (UEL)

NE

NA = Not Applicable, NE = Not Established,  
NR = Not Regulated Against D = Decomposes

## 10. Stability And Reactivity

### Reactivity Data

Vinylside Basecoat is considered to be stable under normal conditions, however it contains volatiles and exposure to the following should be avoided: Strong oxidizers, heat, sparks, open flame, and a build up of static electricity.

### Hazardous Decomposition Byproducts

Carbon Monoxide

### Hazardous Polymerization

Will Not Occur  May Occur  Other...

## 11. Toxicological Information

### Acute Effects of Overexposure

#### Ingestion

May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. May cause systems toxicity with acidosis. May cause central nervous system depression, characterised by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure.

#### Skin Contact

Harmful in contact with the skin. Irritating to skin. Frequent or prolonged contact with skin may cause dermatitis. Entry into the blood stream through cuts, abrasions or lesions, may produce systemic injury with harmful effects.

<b>Inhalation</b>	Causes respiratory tract irritation. Inhalation of high concentrations may cause central nervous system effects characterised by nausea, headaches, dizziness unconsciousness and coma. Vapours may cause dizziness or suffocation.
<b>Eye Contact</b>	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and swelling.
<b>Delayed Effects</b>	This material can cause serious damage if one is exposed to it for long periods.
<b>Mutagenic Effects</b>	NR
<b>Reproductive Effects</b>	This product contains a chemical that may cause birth defects or other reproductive harm. Lead can cross the placenta, and cause miscarriage, still births and birth defects. Exposure before birth can cause mental retardation, behavioural disorders and infant death.
<b>Chronic Effects</b>	Exposure to the material for prolonged periods may cause physical defects in the developing embryo. Lead in large amounts can effect the blood nervous system, heart, glands, immune system and digestive system.

## 12. Ecological Information

### **Environmental Protection:**

Do not allow contamination of waterways, this is a marine pollutant. Do not allow product to come into contact with surface waters or to inter tidal areas below the mean high water mark.

Lead is primarily an atmospheric pollutant that enters the soil and water as fallout. The produced components leach from the soil to contaminate water sources.

## 13. Disposal Considerations

### Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry.

### Special Precautions for Landfill or Incineration.

This product is NOT suitable for disposal by either land fill or via municipal sewers, drains, natural stream or rivers.

## 14. Transport Information

<b>IMCO No.</b>	NE	This material is classified as a class 3- Flammable Liquid according to NZS 5433:1999 Transport of Dangerous Goods on Land.
<b>UN No.</b>	1210	Must not be loaded in the same freight container or on the same vehicle with;
<b>HAZCHEM</b>	3(Y)E	(Class 1) Explosives, (Class 2.1) Flammable gasses, (Class 2.3) Toxins gasses, (Class 4.2) Spontaneous combustible substances, (Class 5.1) Oxidising substances, (Class 5.2) Organic peroxide, (Class 7) Radioactive materials unless specifically exempted, (Class 4.3) Dangerous when wet substances.
<b>D/Goods Class</b>	3.1C	Also classed as 6.1 Toxic
<b>UN Packing Group</b>	III	
<b>CAS Numbers</b>	108-94-1, 64742-95-6, 872-50-4, 1344-37-2	

## 15. Regulatory Information

Specific advice on materials can be obtained at <http://www.ermanz.govt.nz/registers.html>

## 16. Other Information

### Other Data.

IF PRINTED THIS MSDS SHEET IS UNCONTROLLED.

**Mainland Printing Inks** urges each customer or recipient of this MSDS to study it carefully to become aware of and the hazards associated with the product.

The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS. To promote safe handling, each customer or recipient should:

- (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards of safety;
- (2) furnish this same information to each of its customers for the product; and
- (3) request its customers to notify their employees, customers, and other users of the product of this information.

**NOTE:** The information and recommendations contained in this data sheet have been compiled from sources believed to be reliable and represent the best current opinion on the subject. No warranty, guarantee or representation is made by the company as to the absolute correctness or sufficiency of any representation contained in this data sheet and the company assumes no responsibility in connection therewith. Nor can it be assumed that all acceptable safety measures are contained in this data sheet or that other additional measures may not be required under particular or exceptional circumstances or conditions.