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Mainland Printing Inks
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Quality
ISO 9001

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.
52838 etc...

Use or Description : Screen printing ink for vinyl curtain sider substrates.

Suppliers Name : Mainland Printing Inks,
Street Address : 351 Selwyn Street, P.O.Box 12-171, Christchurch 8242, New Zealand.
Telephone : +64 3 338 6321

Facsimile :

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
Mobile +64 0274 444 755

2. Hazards Identification



Hazard Classification:

- 3.1C - Substance that is a Flammable Liquid and vapour./
- 6.1D (Dermal) -Substance that is harmful in contact with skin./
- 6.1D (Inhalation) - Substance that is harmful if inhaled./
- 6.1D (oral) - Substance that is harmful if swallowed./
- 6.3A - Substance that causes skin irritation./
- 6.5B - Substance that causes an allergic skin reaction./
- 6.4A - Substance that causes serious eye irritation./
- 6.9 (Respiratory) Substance that may cause respiratory irritation./
- 6.9B - Substance that is suspected of causing genetic defects./
- 6.7A - Substance that may cause cancer.
- 6.8A - Substance that may damage fertility or the unborn child.
- 6.9A - Substance that causes damage to organs through prolonged or repeated exposure.
- 9.1A - Substance that is very toxic to aquatic life with long lasting effects.

Hazard statement codes:

- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- H302 Harmful if swallowed.
- H315 Cause skin irritation.
- H317 May cause an allergic skin reaction./
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H341 Suspected of causing genetic defects./

H351 May cause cancer./
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Toxic to aquatic life with long lasting effects./

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.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe fume/mist/vapours.
P270 Do not eat, drink or smoke when using this product.
P264 Wash skin thoroughly after handling.
P261 Remove/Take off immediately all contaminated clothing.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.

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.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P303+P361+P353 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
P362 Take off contaminated clothing and wash before reuse.
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P304+P312 IF INHALED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell./
P331 Do NOT induce vomiting.
P330 Rinse mouth.
P312 Call a POISON CENTRE or doctor/physician if you feel unwell.
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.
P307+P311 IF Exposed: 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.

3. Composition / Information On Ingredients

Potentially Hazardous Ingredients	% by weight (approx)	TLV (TWA)		STEL (TWA)		Note CAS No.
		mg/m ³	ppm	mg/m ³	ppm	
C370 Cyclic Aliphatic Ketone	1-3	100	25			108-94-1,
P160 Aromatic/Aliphatic	30-40	150	skin 20			64742-95-6,
N15 Cyclic Amide	15					872-50-4

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.

Skin Contact

Launder contaminated clothing before reuse.

Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Take care not to rinse contaminated water into the non-affected eye. If persistent irritation occurs, obtain medical attention.
Ingestion	Do NOT induce vomiting. Give 1 to 2 glasses of water. Get medical assistance. (Note to physician: Material if aspirated into the lungs may cause chemical pneumonitis. Treat appropriately.
Health Hazard : Information	Use Vinylside Basecoat in a well ventilated area with appropriate respirators and other safety protection worn as necessary. The following effects are likely should over exposure occur: Eye irritation, moderate skin irritation. Respiratory irritation, dizziness, nausea, and loss of consciousness. Prolonged or repeated skin contact may defat the skin resulting in possible dermatitis.

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 oxidising materials.

6. Accidental Release Measures

Spill and Leak Procedure

Shut off all possible sources of ignition. Use clean, non-sparking tools and equipment. Avoid accidents, clean up immediately. Increase ventilation. Avoid walking through spilled product as it is slippery when spilt. Water spray may be used to cool and disperse vapours, protect personnel, and dilute spills to form non-flammable mixtures. Do NOT get water inside containers. A vapour suppressing foam may be used to reduce vapours. Water spray may reduce vapour but may not prevent ignition in closed spaces. Monitor area with combustible gas indicator.

Clean Up Procedures: For small liquid spills (< 1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely. For large liquid spills (> 1 drum), transfer by mechanical means such as vacuum truck to a salvage tank for recovery or safe disposal. Do not flush away residues with water.

Retain as contaminated waste. Allow residues to evaporate or soak up with an appropriate absorbent material and dispose of safely. Remove contaminated soil and dispose of safely.

Containment:

Stop leak if safe to do so.

Environmental Precautionary Measures:

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management.

Evacuation Criteria: Evacuate all unnecessary personnel.

Personal Precautionary Measures:

Personnel involved in the clean up should wear full protective clothing as listed in section 8.

7. Handling & Storage

Handling

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Extinguish any naked flames. Do not smoke. Remove ignition sources. Avoid sparks. Avoid contact with skin, eyes, and clothing. Electrostatic charges may be generated during pumping. Electrostatic discharge may cause fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (≤ 1 m/sec until fill pipe submerged to twice its diameter, then ≤ 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling, discharging, or handling operations.

Storage

Store in a cool, dry, well-ventilated, fireproof area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Ground and bond storage containers. Store away from incompatible materials as listed in section 10. Must be stored in a diked (bunded) well-ventilated area, away from sunlight, ignition sources and other sources of heat. Bulk storage tanks should be diked (bunded). Keep away from aerosols, flammables, oxidising agents, corrosives and from other flammable products which are not harmful or toxic to man or to the environment. Storage Temperature: Ambient. Avoid prolonged contact with natural, butyl or nitrile rubbers. This product has a UN Classification of 2618 and a Dangerous Goods Class 3 (flammable) according to The Australian Code for the Transport of Dangerous Goods By Road and Rail

8. Exposure Control / Personal Protection

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

- | | |
|---|---|
| <input checked="" type="checkbox"/> Protective Overalls | <input checked="" type="checkbox"/> Synthetic Apron |
| <input checked="" type="checkbox"/> Safety Glasses | <input checked="" type="checkbox"/> Vapour Respirator |
| <input type="checkbox"/> Splash Goggles | <input type="checkbox"/> Dust & Vapour Respirator |
| <input checked="" type="checkbox"/> Face Shield | <input type="checkbox"/> Full Protective Suit |
| <input type="checkbox"/> Airline Hood or Mask | <input checked="" type="checkbox"/> Boots |
| <input checked="" type="checkbox"/> Gloves | <input type="checkbox"/> 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

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

50-70 % approx.			NA
Flammability Limit, %vol	Lower (LEL)	Upper (UEL)	Auto Ignition Temperature, °C
	NE	NE	>270

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 oxidisers, 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.
Inhalation	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.
Eye Contact	May cause irritation to eyes. Symptoms may include redness, tearing, stinging and swelling.
Delayed Effects	Repeated / prolonged inhalation may aggravate existing respiratory disorders and cause liver disorders and cause liver and kidney damage.
Mutagenic Effects	May damage fertility or the unborn child.
Reproductive Effects	This product contains a chemical that may cause birth defects or other reproductive harm.
Chronic Effects	Aspiration hazard : Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Prolonged skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Repeated / prolonged inhalation may aggravate existing respiratory disorders and cause liver disorders and cause liver and kidney damage..

12. Ecological Information

Environmental Protection:

Avoid contaminating waterways.

Acute Toxicity

Fish : Toxic: LL/EL/IL50 1-10 mg/l

Aquatic Invertebrates : Toxic: LL/EL/IL50 1-10 mg/l

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

IMCO No.	NE	This material is classified as a class 3- Flammable Liquid according to NZS 5433:1999 Transport of Dangerous Goods on Land.
UN No.	1210	Must not be loaded in the same freight container or on the same vehicle with;
HAZCHEM	3(Y)E	(Class 1) Explosives, (Class 2.1) Flammable gasses, (Class 2.3) Toxins gasses,
D/Goods Class	3.1C	(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.
UN Packing Group	III	

15. Regulatory Information

National and or International Regulatory Information.

Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum degree of Hazard) Regulations 2001.

Group Standard: HSR002662

Additives, Process Chemicals and Raw Materials (Flammable) Group Standard 2006

Hazardous Category.

Harmful, Irritant

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.