



MATERIAL SAFETY DATA SHEET

Issue number: 005 Date Issued: AUGUST, 1999

PRODUCT: 390-LINE XLA GELCOAT - LEAD FREE

HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

COMPANY DETAILS

Company name: The Valspar (Australia) Corporation Pty. Limited
(ACN 000 039 396)

Address: 203 Power Street, Glendenning, N.S.W. 2761

Telephone Number: (02) 9839 1111

Fax: (02) 9839 1199

Emergency Telephone Number: 24 HOURS 1800 033 111 or for specialist advice call (02) 9839 1111 (Business hours)

PRODUCT IDENTIFICATION

Product Name: XLA GELCOATS - Lead free

Other Names: Resin Solution, Flammable; Unsaturated polyester resin

Manufacturer's Product Code: 390-Line e.g. 390-8043, 390-8000

UN Number: 1866

Dangerous Goods Class: 3

Hazchem Code: 3[Y]

Poisons Schedule: S5

Packing Group: III

Use: Thermoset unsaturated polyester gelcoats, for use in the Composites industry.

PHYSICAL DESCRIPTION / PROPERTIES

Specific Gravity (20 °C):	1.1 to 1.7	Melting Point (°C):	Not Applicable
Relative Vapour Density:	Heavier than air	Boiling Point (°C):	100 - 145 ⁽¹⁾
Vapour Pressure (20 °C):	0.6 kPa ⁽¹⁾	Decomposition Point (°C):	Not available
Flash Point (°C):	27 ⁽¹⁾	% Volatile by Weight:	28 - 40
Explosive Limits (% in air):	LEL/UEL ⁽¹⁾ = 1.1/6.1	Solubility in Water:	Insoluble
Appearance, Odour:	Variously coloured, opaque, viscous liquids with typical pungent styrene odour.		

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⁽¹⁾ Based on values for styrene.

INGREDIENTS

CHEMICAL ENTITY ⁽²⁾	CAS NUMBER	PROPORTION (Vol/Vol)	TWA ⁽³⁾
Polyester Resin	commercially confidential	30 - <60%	Not classified as hazardous ⁽⁴⁾
Styrene	100-42-5	30 - <60%	50 ppm. Skin ⁽⁵⁾
Titanium dioxide	13463-67-7	0 - <10%	Not classified as hazardous
Inorganic pigments-mixed	Mixture	0 - <10%	Not classified as hazardous ⁽⁴⁾
Amorphous silica, crystalline free	112926-00-8	1 - <10%	N/A ⁽³⁾
Organic pigments	Mixture	0 - <10%	Not classified as hazardous ⁽⁴⁾
2-Propenoic acid, 2-methyl, methyl ester	80-62-6	0 - <10%	100 ppm ⁽⁶⁾
Talc	14807-96-6	0 - <1%	N/A ⁽³⁾
Organophilic clay	68953-58-2	0 - <1%	Not classified as hazardous ⁽⁴⁾
Acrylic copolymers	confidential	0 - <1%	Not classified as hazardous ⁽⁴⁾
Other additives/impurities	Mixture	0 - <1%	N/A

⁽²⁾ All the chemical entities in this formulation comply with the NICNAS legislation.

⁽³⁾ Values are expressed as Time Weighted Averages (TWA) for 8 hour day, 5 day week are either expressed in parts per million of air or in mg/m³. Not all the chemical entities have been assigned with TWAs by NOHSC and therefore some TWAs are only manufacturer suggested values as indicated in brackets. N/A stands for not applicable either because there are no established TWA for the entity or the entity is not a hazard in the state in which it is present in the paint e.g. TWAs for the dust particles in liquid paint.

⁽⁴⁾ According to criteria set by the National Occupational Health and Safety Council of Australia.

⁽⁵⁾ A SKIN classification means that this material may be absorbed by the unprotected skin, in contact with the liquid or even with high levels of vapour, rendering the above TWA inoperative.

⁽⁶⁾ 2-Propenoic acid, 2-methyl, methyl ester is listed as a possible SENSITIZER by skin contact.

LEAD CONTENT: Some gelcoats included in the 390-Line contain some lead based pigments. This will be clearly stated on the warning label. As with any lead containing compound, this product must not be used on toys, furniture or surfaces that might be chewed by children. For advice on these products consult the MSDS "390-Line Gelcoats - lead containing".

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

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

ACUTE EFFECTS

SWALLOWED: Harmful. It could result in an irritation to mucous membranes. May cause nausea, vomiting and diarrhoea. Upon aspiration into lungs, chemical pneumonia may develop.

EYE: If the product enters the eye, it could cause mild to moderate irritation. If in the eye for some time then the product could swell and redden the eye.

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- SKIN: IRRITANT. Contact with skin may result in irritation with mild local redness.
- INHALED: Harmful by inhalation. Vapour concentrations above recommended exposure levels may be irritating to the eyes and the respiratory tract, may cause headaches, nausea, dizziness, could have an anaesthetic effect and may have other Central Nervous System effects.

CHRONIC EFFECTS

The effects stated below are mainly due to the presence of styrene:

Prolonged or repeated exposure to the product, on skin, could lead to drying and cracking of skin and other dermatitis effects.

Prolonged exposure could also result in effects to the Central Nervous System, headaches and systemic defects of kidney and liver. Styrene is absorbed through the skin resulting in the same effects as for swallowing.

Styrene is listed as a Group 2B experimental animal carcinogen by the IARC. There is no evidence of carcinogenic effects in humans. There is no consistent or conclusive data on the mutagenicity or teratogenicity of the styrene.

2-Propenoic acid, 2-methyl, methyl ester in the product could cause skin sensitisation.

It must be taken into account that the main route of hazard is breathing of dust particles (spray mist for this product) during application or ingestion of product, both of which are highly unlikely and can be avoided by good occupational work practice. As with any chemical, ingestion, inhalation of vapour, prolonged or repeated skin contact should be avoided by good occupational work practice.

FIRST AID

- SKIN: Remove contaminated clothing, including shoes, and launder before reusing. Wipe affected area with a dry piece of cloth and flush with large amounts of water, using soap. If rash appears seek medical advice.
- EYES: Immediately irrigate with copious amount of water for at least 15 minutes. Seek immediate medical advice.
- INHALATION: Move victim to fresh air, keep warm and at rest. Administer artificial respiration if breathing is stopped. Seek immediate medical attention.
- INGESTION: Give water or milk to drink. Do NOT induce vomiting. Seek medical attention - contact a doctor or Poisons Information Centre. If vomiting, place patient's face downwards and below hip level, so that vomit does not enter the lungs.

ADVICE TO DOCTOR

- ORAL: There is no specific antidote. Treat symptomatically.
Enforce bed rest and observe carefully. Aspiration is the main danger.
Observe for 24 hours for chemical pneumonia. Maintain airways and vital functions. Gastrointestinal irritation, nausea, vomiting and cramping could occur. CNS depression, ranging from mild headache to anaesthesia is possible.
- INHALATION: CNS depressant; may be characterised by headache and dizziness.

PRECAUTIONS FOR USE

EXPOSURE STANDARDS

There is no value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia). Suggested limit is 50 ppm (Time weighted average 8 hour day, 5 day week) for total concentration of vapour in air.

Maintain below this limit and minimise vapour concentration as much as possible through exhaust ventilation. TWAs for individual entities are provided on page 2 of this data sheet. As a guide for Short Term Exposure Levels (STEL) do not allow the concentration of the total vapour or the ingredients go to above twice the stated TWAs for 30 minutes in an 8 hour working period.

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Maintain below this limit and minimise vapour concentration as much as possible through exhaust ventilation.

If working in an enclosed area avoid saturation of vapour on skin by wearing overalls or other protective clothing, otherwise trace amounts of styrene and methyl methacrylate may be absorbed during contact with the skin, rendering the above TWA's incorrect.

ENGINEERING CONTROLS

Use in well ventilated area. Keep containers closed when not in use.
Local exhaust ventilation is usually required to remove all solvent fumes from areas with personnel. Maintain vapour air levels below exposure limit. If air contaminant level exceeds the exposure limit, respiratory protection is required.
The environment surrounding applicators must be free of all sources of ignition.
Should be kept in a fire department approved paint store and volumes kept to a minimum.

PERSONAL PROTECTION

Avoid skin and eye contact.
Wear overalls, chemical goggles, and impervious gloves, leather boots with rubber soles.
Use with adequate ventilation. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS 1715 and AS 1716. Where there is a probability of high vapour concentration, breathing apparatus must be used. In confined areas where the concentration of vapour exceeds or may exceed the TWA, an air supplied respirator must be used.
Always wash hands before smoking, eating, drinking or using toilet.
Where solution is likely to come in contact with the person equipment should include goggles or face shield, butyl rubber gloves. PVC apron and sleeves and butyl rubber/PVC boots.

FLAMMABILITY

FLAMMABLE. HAZCHEM: 3[Y]
Isolate from sources of heat, naked flames or sparks. Earth all process equipment including tanks.
Explosive air-vapour mixture could form, ensure adequate ventilation. Keep away from strongly oxidising materials.

RISK AND SAFETY PHRASES for labels

RISK	SAFETY
R10 Flammable	S9 Keep container in a well ventilated place.
R20 Harmful by inhalation	S16 Keep away from sources of ignition-no smoking
R36/38 Irritating to eyes and skin	S23 Do NOT breathe fumes or vapours
	S29 Do NOT empty into drains.
	S33 Take precautionary measures against static discharges.

Classified as HARMFUL and IRRITANT according to the criteria of Worksafe Australia.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

UN No: 1866 Shipping Name: RESIN SOLUTION, Flammable

ROAD/RAIL:

Classified as a Dangerous Substance (Class 3-Flammable liquid) by the Australian Code for the Transport of Dangerous Goods by Road & Rail.

Class: 3 Packing Group: III HAZCHEM: 3[Y]

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MARINE:

Class: 3.3 Packaging Group: III Marine Pollutant (Styrene)

IMDG Code Page: 3379 MFAG Table No. 310 EmS No. 3-05

...continued

STORAGE AND TRANSPORT, continued

Refer to State Regulations for storage and transport. Not to be loaded with flammable gases in bulk, spontaneously combustible substances, or oxidising agents. Container drums should conform to UN 1A1 or UN 1A2 and storage tanks to AS 1940 and AS 1692.

STORAGE TEMPERATURE :	Cool
TRANSPORT TEMPERATURE:	Ambient
LOADING /UNLOADING TEMPERATURE:	Ambient
STORAGE/TRANSPORT PRESSURE (kPa):	Atmospheric
ELECTROSTATIC ACCUMULATION HAZARD:	Yes, use proper grounding procedure.

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release.

Store in a cool, well ventilated place away from incompatible materials.

Do not handle, store or open near open flame, sources of heat or ignition.

Use proper grounding procedures to avoid formation of electric spark due to static charge accumulation.

Do not pressurise, cut, heat, or weld containers. Empty product containers may contain product residue.

Do not reuse empty containers without commercial cleaning or reconditioning.

SPILLS

Extinguish or remove all sources of ignition. Keep away from heat, naked flames or spark. Keep all unprotected personnel and public away. Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Use absorbent (soil, sand vermiculite or other inert material), to contain spill. Scrape up and place in suitable containers for disposal. Seal and label containers for disposal.

Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations. Prevent contamination of waterways. In case there is a spill into waterways, try to minimise spill into water by either containing the spill or if safe to do so, shutting off the source. Remove from the surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies sinking and/or suitable dispersants may be used in non confined waters.

DISPOSAL

Refer to State Land Waste Management Authority.

ENVIRONMENTAL IMPACT

Do not spill into waterways.

FIRE/ EXPLOSION HAZARD

FLASH POINT: 27°C

Explosive air-vapour mixture may form.

Explosive with oxidising substances.

Earth and bund all transfer equipment.

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Keep away from heat, naked flames or sparks.
Have adequate fire equipment available.
In case of fire **evacuate immediate area.**
Advise fire-brigade of nature of hazard. Keep pipelines, containers, etc. cool with water spray.
Wear full protective clothing including **breathing apparatus.**

FIRE FIGHTING MEASURES

FIRE FIGHTING PROCEDURES

Use water spray to cool fire exposed surfaces and to protect personnel. Shut off "fuel" to fire.
Use foam, dry chemical, or Carbon Dioxide to extinguish fire.
When this product burns, black acrid smoke will result. Fire fighters should stand upwind of fires and use self contained breathing apparatus.

SPECIAL FIRE FIGHTING PRECAUTIONS

Avoid spraying water directly into storage containers due to danger of boil over.
Refer to First Aid section of this material data sheet.

EMERGENCY and CONTACT POINT

EMERGENCY 24 HOUR TELEPHONE : 1800 033 111 - ALL STATES
or for specialist advice from the Technical Manager or the Technical Director
Tel: (02) 9839 - 1111 Fax: (02) 9839 - 1199 (Business hours)