



MATERIAL SAFETY DATA SHEET

Issue number: 004 Date Issued: JUNE, 2000

PRODUCT: 300-5003 SPECIAL RED TOOLING GELCOAT

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

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PRODUCT IDENTIFICATION

Product Name: SPECIAL RED TOOLING GELCOAT

Other Names: Unsaturated polyester resin; Resin solution, flammable

Manufacturer's Product Code: 300-5003

UN Number: 1866

Dangerous Goods Class: 3

Hazchem Code: 3[Y]

Poisons Schedule: S5

Packing Group: III

Use: Unsaturated polyester gelcoat for use in mould making.

PHYSICAL DESCRIPTION / PROPERTIES

Specific Gravity (20 °C):	1.20 to 1.27	Melting Point (°C):	Not Applicable
Relative Vapour Density:	Heavier than air	Boiling Point (°C):	145
Vapour Pressure (20 °C):	4.5 mm of Hg ⁽¹⁾	Decomposition Point (°C):	Not available
Flash Point (°C):	31 ⁽¹⁾	% Volatile by Weight:	35 - 45
Explosive Limits (% in air):	LEL/UEL ⁽¹⁾ = 1.1/6.1	Solubility in Water:	Insoluble
Appearance, Odour:	Red, opaque, viscous liquid with aromatic solvent odour.		

⁽¹⁾Based on values for aromatic hydrocarbon styrene.

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INGREDIENTS

CHEMICAL ENTITY ⁽²⁾	CAS NUMBER	PROPORTION (Vol/Vol)	TWA ⁽³⁾
Polyester resin	Commercially confidential	30 - <60%	Not classified as hazardous ⁽⁴⁾
Benzene, ethenyl (styrene)	100-42-5	30 - <60%	50 ppm. -Skin ⁽⁵⁾
Inorganic pigments	Mixed	10 - <30%	Not classified as hazardous ⁽⁴⁾
Lead Molybdate pigment	12656-85-8	1 - <10%	0.05mg. per cubic metre ⁽⁷⁾
Hydroquinone (inhibitor)	123-31-9	<0.1%	2 mg./m ³
Other additives	Mixture	0 - <1%	N/A ⁽⁶⁾

- (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.
- (4) According to criteria set by the National Occupational Health and Safety Commission.
- (5) A Sk or Skin notification indicates that there is a strong possibility that contact with the skin could result in the absorption of significant amounts of styrene. Such absorption makes the above TWA invalid.
- (6) 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.
- (7) **LEAD CONTENT WARNING:** This gelcoat contains lead molybdate and/or lead chromate pigment.

THE LEAD LEVEL IS 2.3% LEAD IN THE CURED FILM.

The presence of these pigments is clearly stated on the container label. This product should not be used on toys, furniture or surfaces that might be chewed by children. Wash hands thoroughly after using and before eating or smoking. Long term over-exposure by inhalation or ingestion of mists and dusts from products containing lead compounds can cause harmful effects to the urinary, blood, reproductive and nervous systems and may create the risk of cancer.

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

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

ACUTE EFFECTS

SWALLOWED: Harmful if ingested. Ingestion could cause irritation to mucous membranes, nausea, vomiting, gastro-intestinal disturbances and CNS depression. Upon aspiration into lungs, chemical pneumonia and damage of lungs may develop.

EYE: Mild to moderate irritation on entering eye. If in eye for sometime, product could swell and redden the eye.

SKIN: Contact with skin may result in irritation.

INHALED: Harmful by inhalation. Vapour concentrations above recommended exposure levels may be

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irritating to the eyes and the respiratory tract, may cause headaches, and could have an anaesthetic effect and 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 mild dermatitic effects.

Prolonged exposure could also result in effects to the Central Nervous System and headaches.

Styrene is absorbed through the skin. Repeated and excessive exposure can affect the central nervous system, liver kidneys and respiratory system. Styrene is listed as a Group 2B experimental animal carcinogen by the IARC. There is no evidence of carcinogenic effects in humans.

Lead molybdate pigment is currently listed as a probable human carcinogen (Worksafe Category 2). However, recent toxicity data indicate that lead chromates are non-carcinogenic or show very low carcinogenic potential. [Hoechst PHC670/171296, Dec. 1996].

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 eyes with copious amount of water for at least 15 minutes. Seek 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, if patient is conscious. Do NOT induce vomiting. Seek immediate 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 known antidote. Aspiration is main danger.

Enforce bed rest and observe carefully. Observe for 24 hours for chemical pneumonitis.

Maintain airway & vital functions. Prophylactic antibiotics useful.

Gastrointestinal irritation, nausea, vomiting and cramping could occur. CNS depression, ranging from mild headache to anaesthesia is possible. Treat symptomatically.

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 limits are 100ppm (STEL) and 50ppm (TWA-8hour/day, 5day/week) for total concentration of vapours in air. Maintain below this limit and minimise vapour concentration as much as possible through exhaust ventilation.

SUBSTANCE	CAS No.	TWA	STEL	NOTICES
		ppm	mg/m ³	ppm
			mg/m ³	

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Styrene 100-42-5 50 215 100 425 Skin

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.
Unsaturated polyester resins should be kept in a fire department approved flammable goods 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 AS1715 and AS1716. Where there is a probability of high vapour concentration, breathing apparatus 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, PVC gloves, PVC apron and sleeves and PVC boots. In confined areas where the concentration of vapour exceeds or may exceed the TWA, an air supplied respirator must be used.

FLAMMABILITY

FLAMMABLE. Flash Point 31^oC 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 PHRASES		SAFETY PHRASES	
R10	Flammable	S23	Do NOT breathe vapour or spray
R20	Harmful by inhalation	S24/25	Avoid contact with skin and eyes.
R36/38	Irritating to eyes and skin	S36	Wear suitable protective clothing
R61	May cause harm to the unborn child	S53	Avoid exposure- obtain special instructions before use
R62	Possible risk of impaired fertility	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)
R40	Possible risk of irreversible effects		
R33	Danger of cumulative effects		

Classified as TOXIC according to criteria of Worksafe Australia

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

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

UN Number: 1866 **Packing Group:** III **HAZCHEM:** 3[Y]

Refer to State Regulations for storage and transport.
Not to be loaded with flammable gases in bulk, spontaneously combustible substances, or oxidising

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agents. Container drums should conform to UN1A2 and storage tanks to AS 1940 and AS 1692.

... continued

STORAGE AND TRANSPORT, continued

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.

Protect material from direct sunlight.

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 all 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), and contain. Scrape up with shovels or pails and place in suitable containers for disposal. Seal and label containers for disposal. Keep away from heat, naked flames or spark. Ensure conformity to local disposal regulations. Consult an expert on disposal of any recovered material and ensure conformity to any disposal regulations.

Prevent contamination of waterways. In case there is a spill into water ways, try to minimise spill into water by either containing the spill or shutting off the source, if safe to do so.

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: 31°C

Explosive air-vapour mixture may form.

Explosive when mixed with oxidising substances.

Earth and bund all transfer equipment.

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.



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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 in confined areas.

SPECIAL FIRE FIGHTING PRECAUTIONS

Avoid spraying water directly into storage containers .
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)