

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Liquid Glass Colourant**
 Item Code:
 Product Use: Colourant
 Restriction of Use: Refer to Section 15

Australian Supplier: **Norglass Paints**
 Address: 59 Moxon Road
 Punchbowl NSW 2196
 Australia
 Telephone: +61 2 9708 2200
 Email: techinfo@norglass.com.au

New Zealand Supplier: xxx
 Address: xxx
 Telephone: 0508 724687

Emergency Numbers:
Australia: 13 1126 (Poisons Information Centre)
New Zealand: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 10 December 2023 v4

Section 2. Hazards Identification

Australia:
 Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

New Zealand:
 This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Surface Coatings and Colourants (Flammable) - HSR002662

Pictograms



Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 3	H226	Flammable liquid and vapour.
Acute dermal toxicity Cat. 4	H312	Harmful in contact with skin.
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Aspiration hazard Cat. 1	H304	May be fatal if swallowed and enters airways.

Skin irritation Cat. 2	H315	Causes skin irritation.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
specific target organ toxicity – single exposure Cat. 3 respiratory tract irritation	H335	May cause respiratory irritation.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical, ventilating and lighting] equipment
P242	Use non-sparking tools.
P243	Take action to prevent static discharge.
P260	Do not breathe fumes, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective clothing as detailed in SDS Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P362+P364	Take off contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use foam, water spray, dry chemical powder, carbon dioxide, sand to extinguish.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Xylene	85-90	1330-20-7
Ethyl Benzene		100-41-4
n-butanol	5-10	71-36-3
Colourant	To balance	Proprietary

Section 4. First Aid Measures

Routes of Exposure:

Product Name: Liquid Glass Colourant
Date of SDS: 10 December 2023

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
If on Skin	Take off contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth. DO NOT induce vomiting. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Immediately call a POISON CENTER or doctor/physician.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:	If material is inhaled and enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty breathing, chest congestion, shortness of breath and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Inhalation of high vapour concentrations may cause central nervous system depression (symptoms include dizziness, lightheadedness, headache, nausea, loss of coordination). Continued inhalation may result in unconsciousness and death. Auditory system effects may include temporary hearing loss and/or ringing in the ears.
Ingestion:	May be fatal if swallowed and enters airways.
Inhalation:	Harmful if inhaled. May cause respiratory irritation.
Skin:	Harmful in contact with skin. Causes skin irritation. Symptoms following skin irritation may include a burning sensation, redness, swelling and/or blisters.
Eye:	Causes serious eye damage.
Chronic:	May cause damage to organs through prolonged or repeated exposure.

Medical Attention: Obtain medical treatment immediately - do not delay. Keep victim calm.

Section 5. Fire Fighting Measures

Hazard Type	Flammable Liquid or Vapour.
Hazards from combustion products	Carbon monoxide, carbon dioxide, other pyrolysis products typical of burning organic material.
Suitable Extinguishing media	Foam, water spray or foam. Dry chemical powder, carbon dioxide, sand and earth can be used for small fires only. Do not use water jet.
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus. Keep adjacent containers cool by spraying with water. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas; distant ignition is possible. Product may be carried across water surface spreading fire and contacting ignition sources.
HAZCHEM CODE	3Y

Section 6. Accidental Release Measures

Personal precautions:

Wear protective equipment as detailed in Section 8. Eliminate or isolate ignition sources if safe to do so. Take precautions against static discharge. Avoid contact with spilled or released materials. Keep unprotected people away. Stay upwind and keep out of low areas.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

Spill and Disposal procedures:

Contain the spilled liquid with sand or earth. Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material. Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation. Dispose of according to Local Regulations.

Section 7. Handling and Storage
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Precautions for Handling:

- Read carefully and follow all instructions.
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Keep container tightly closed.
- Ground and bond container and receiving equipment.
- Use explosion-proof [electrical, ventilating and lighting] equipment
- Use non-sparking tools.
- Take action to prevent static discharge.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Use only outdoors or in a well-ventilated area.
- Wear protective clothing as detailed in SDS Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Keep out of reach of children.
- Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store in a cool, dry place away from direct sunlight.
- Do not pressurize, cut, heat or weld containers - residual vapours are flammable.
- This product is flammable and will fuel a fire in progress.

Section 8 Exposure Controls / Personal Protection
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WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Xylene	[1330-20-7]	50	217	-	-
Ethyl benzene	[100-41-4]	20	88	40	176
n-Butyl alcohol	[71-36-3] Ceiling	50	150		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

Engineering Controls

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

Personal Protection Equipment:



Eyes	Always use safety glasses or a face shield when handling this product. Avoid wearing contact lenses.
Hands and Skin	Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.
Respiratory	Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to select a filter suitable for organic gases and vapours [boiling point >65 °C]. Where respiratory protective equipment is required, use a full-face mask. Where air-filtering respirators are unsuitable (e.g., airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive pressure breathing apparatus.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Black, Red, Yellow, Green and Blue
Odour	Aromatic
Odour Threshold	0.27 ppm
pH	No available
Boiling Point	135 – 155°C
Melting Point	>-48°C
Freezing Point	>-48°C
Flash Point	23 - 27°C
Flammability	Flammable Liquid
Upper and Lower Exposure Limits	1 – 12.3%
Vapour Pressure	0.8 – 1.2 kPa @20°C
Vapour Density	3.7 (air=1)
Specific Gravity	0.87 g/ml
Solubilities in water	Negligible (<1%) w/w%
Partition Coefficient:	3.12 – 3.2 n-octanol/water
Auto-ignition Temperature	432 - 530°C
Decomposition Temperature	Not available
Kinematic Viscosity	<0.9 mm ² /s
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Sources of heat and ignition, open flames.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	A complex mixture of airborne solids, liquids and gases including carbon monoxide, carbon dioxide and sulphur oxides.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
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Dermal	Harmful in contact with skin. Symptoms include burning sensation, redness, swelling and possible blistering. This product can be absorbed through the skin risking over-exposure.
Inhalation	Harmful if inhaled. May cause respiratory irritation. Vapours will cause dizziness and drowsiness. There is the possibility of damage to hearing organs over prolonged use or exposure. Central Nervous System depression includes nausea, headaches, dizziness; continued inhalation may result in loss of consciousness and/or death.
Eye	Causes serious eye damage.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	May be fatal if swallowed and enters airways.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs through prolonged or repeated exposure.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Xylene	1590 mg/kg (mouse)	>2000mg/kg (rabbit)	6350ppm (27.6mg/L)(rat - vapour)
Ethylbenzene	3500 mg/kg (rat)	-	9.6 mg/L/4h (rat)

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Persistence and degradability	Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.
Bioaccumulation	Does not bioaccumulate significantly. Xylene: BCF = 21; Ethylbenzene: BCF = 79.43
Mobility in Soil	If product enters soil, it will be highly mobile and may contaminate groundwater. Highly volatile and will rapidly evaporate to air. Floats on water
Other adverse effects	No data available

Fish toxicity:

Xylene - Oncorhynchus mykiss LC50 = 3.3 mg/L/96 h;
Ethylbenzene - Oncorhynchus mykiss LC50 = 4.2mg/L/96 h

Crustacean toxicity:

Xylene - Palaemonetes pugio LC50 = 8.5 mg/L/48 h;
Ethylbenzene - Daphnia magna LC50 = 2.1mg/L/48 h

Algae toxicity:

Xylene - Skeletonema costatum LC50 = 10.5 mg/L/72 h;
Ethylbenzene - Selenastrum capricornutum LC50 = 4.6mg/L/72 h

Section 13. Disposal Considerations

Disposal Method:

Place recovered product into an appropriate waste container for disposal through appropriate

waste company or specialized landfill in accordance with local regulations. Ensure container is sealed and isolated away from ignition sources.

Precautions: Ensure waste container containing recovered product or contaminated spill media is labelled "Hazardous Waste – Flammable". If triple rinsing container, add rinsate to waste container for disposal.

Disposal methods to avoid: None known.

Section 14 Transport Information

This product is classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020



Road, Rail, Sea and Air Transport

UN No	1307
Class - Primary	3
Packing Group	III
Proper Shipping Name	XYLENES
Marine Pollutant	NO
Special Provisions	If the product's individual container is below 1L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

Section 15 Regulatory Information

Australia:

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a Schedule 6 Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

New Zealand

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Surface Coating and Colourant (Flammable) – HSR002662

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	500L (>5L), 1500L(<5L), 250L (open)
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.

EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

Australia:

1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
2. Standard for the Uniform Scheduling of Medicines and Poisons.
3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
5. Workplace exposure standards for airborne contaminants, Safe work Australia.
6. American Conference of Industrial Hygienists (ACGIH).
7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Australian Manufacturer or New Zealand distributor, if further information is required.

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