

Glass Coat LIQUID GLOSS

Safety Data Sheet

1. Identification of Material and Supplier

GHS Product Identifier	GLASS COAT LIQUID GLOSS (PART A – RESIN)
Company Name	Shamrock Australia Pty Ltd
Address	21-23 Joseph Street Blackburn North Victoria, 3130 Australia
Telephone/Fax Number	Phone: +61 3 9895 4300 Fax: +61 3 9895 4399
Emergency Phone Number	24 hours
Recommended use of the chemical and restrictions on use	Glass Coat Liquid Gloss Part A Resin component used in conjunction with Glass Coat Liquid Gloss Part B Hardener to form an epoxy resin system that provides a tough, durable and high gloss coating.
Other Information	This SDS summarises to the best of our knowledge the health and safety hazard information of the product and how to safely handle and use the product in the workplace.

2. Hazards Identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:	<u>Hazard Class</u>	<u>Hazard Category</u>
	Skin irritation	Category 2
	Serious eye irritation	Category 2A
	Skin sensitizer	Category 1
	Germ cell mutagenicity	Category 2
	Acute hazards to the aquatic environment	Category 2
	Chronic hazards to the aquatic environment	Category 2

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s):

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H341 Suspected of causing genetic defects.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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	P308+P313 IF exposed or concerned: Get medical advice/attention.
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 If eye irritation persists: Get medical advice/attention.
	P362 Take off contaminated clothing.
	P39 Collect spillage.
Storage:	P405 Store locked up.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Classification of material Xn - Harmful Xi - Irritant N - Dangerous for the environment

Risk phrases:

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R68 Possible risk of irreversible effects.

Safety phrases:

S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of water.

S36/37 Wear suitable protective clothing and gloves.

S46 If swallowed, seek medical advice immediately and show this container or label.

S57 Use appropriate container to avoid environmental contamination.

S60 This material and its container must be disposed of as hazardous waste.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:

HAZARDOUS

3. Composition/Information on Ingredients

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700)	25068-38-6	> 60%
Trimethylolpropane triacrylate	15625-89-5	10 - 30%
2,3-epoxypropyl o-tolyl ether	2210-79-9	< 10%

4. First-Aid Measures

Ingestion	Rinse out mouth. Do not drink. Seek medical advice from a specialist.
Skin	Rinse with running water and soap. Seek medical advice.
Eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.

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Inhalation	Move to fresh air, consult doctor if complaint persists.
First Aid facilities	Eye wash and safety shower. Normal washroom facilities.
Medical attention and special treatment	Treat symptomatically.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray (fog), foam, dry chemical or carbon dioxide
Improper extinguishing agent	High pressure waterjet .
Decomposition products in case of fire	Thermal decomposition can lead to release of irritating gases and vapours. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear .
Additional firefighting advice	In case of fire, keep containers cool with water spray. Collect contaminated firefighting water separately. It must not enter drains.

6. Accidental Release Measures

Personal precautions and emergency procedures Avoid contact with skin and eyes.
See advice in Section 8.

Environmental precautions: Do not empty into drains / surface water / ground water.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal.
Dispose of contaminated material as waste according to Chapter 13.
Wash spillage site thoroughly with soap and water or detergent solution.

7. Handling and Storage

Precautions for safe handling Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. Avoid contact with eyes, skin and clothing.
See advice in chapter 8.
For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature.

Conditions for safe storage Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

8. Exposure Controls / Personal Protection

National exposure standards:

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None

Engineering controls: Ensure good ventilation/suction at the workplace.

Eye protection: Wear safety glasses with side shields.

Skin protection: Wear long sleeved shirt and long trousers.
The use of chemical resistant gloves such as Neoprene or Natural Rubber are recommended

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Respiratory protection: If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

9. Physical and chemical properties

Appearance: colourless
clear
Odour: Epoxy
Flash point: > 130 °C (> 266 °F)
Density: 1.10 - 1.18 g/cm³
Solubility in water: Insoluble

10. Stability and Reactivity

Stability Stable under normal conditions of temperature and pressure.

Conditions to avoid Avoid excessive heat and ignition sources.
Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately.

Incompatible materials Acids.
Amines.
Strong oxidizing agents.

Hazardous decomposition products Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous polymerization Rapid polymerization may generate excessive heat and pressure.
Polymerization may occur at elevated temperature or in the presence of incompatible materials.

11. Toxicological Information

Health Effects:
Ingestion Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

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Skin	Irritating to skin.
Eyes	Causes serious eye irritation. Symptoms may include severe irritation, pain, tearing, blurred vision.
Inhalation	Inhalation of vapours or mists of the product may be irritating to the respiratory system.
Chronic effects	Toxicological studies of an ingredient in this product have shown that prolonged exposure to high vapour concentration or ingestion of high dose may cause birth defects and decreased fertility in laboratory animals.
Mutagenicity	Category 2 (Mutagen), This product contains an ingredient which has been associated with mutagenicity effects.

Acute toxicity:						
Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Reaction product: Bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <=700) 25068-38-6	LD50	2,000 mg/kg	oral		rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)
	LC50	2,000 mg/kg	dermal		rat	
Trimethylolpropane triacrylate 15625-89-5	LD50	>5,000 mg/kg	oral		rat	
	LD50	>2,000 mg/l	dermal		rat	
2,3-epoxypropyl o-tolyl ether 2210-79-9	LD50	2,000 mg/kg	oral		rat	
	LD50	2,000 mg/kg	dermal		rat	

Skin corrosion/irritation:				
Hazardous components CAS-No.	Result	Exposure time	Species	Method
Reaction product: Bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <=700) 25068-38-6	moderately irritating	24 h	rabbit	Draize Test

Serious eye damage/irritation:				
Hazardous components CAS-No.	Result	Exposure time	Species	Method
Reaction product: Bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <=700) 25068-38-6	Not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation/Corrosion)

Respiratory or skin sensitization:				
Hazardous components CAS-No.	Result	Test type	Species	Method
Reaction product: Bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <=700) 25068-38-6	sensitizing	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

Germ cell mutagenicity:					
Hazardous components CAS-No.	Result	Type of study/Route of	Metabolic activation/Exposure	Species	Method

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		administration	time	
Reaction product: Bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <=700) 25068-38-6	Negative	Bacterial reverse mutation assay (e.g Ames test)	With and without	OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)

Repeated dose toxicity:					
Hazardous components CAS-No.	Result	Route of application	Exposure time/frequency of treatment	Species	Method
Reaction product: Bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <=700) 25068-38-6	NOAEL=500 mg/kg	Oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

12. Ecological Information

General ecological information

Do not empty into drains / surface water / ground water.

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	LC50	1.75 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	EC50	9.4 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	NOEC	2.4 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Trimethylolpropane triacrylate 15625-89-5	LC50	1-2.2 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,3-epoxypropyl o-tolyl ether 2210-79-9	LC50	7.5 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
2,3-epoxypropyl o-tolyl ether 2210-79-9	EC50	3.3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin		aerobic	5%	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry)

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(number average molecular weight <= 700) 25068-38-6				Test)
Trimethylolpropane triacrylate 15625-89-5			>70%	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Trimethylolpropane triacrylate 15625-89-5			>40%	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
2,3-epoxypropyl o-tolyl ether 2210-79-9		aerobic	11-17%	OECD 301 A - F

13. Disposal Considerations

Waste disposal of product Dispose of as hazardous waste in compliance with local and national regulations.

Disposal for uncleaned package Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

14. Transport Information

Road and Rail Transport:

Dangerous Goods information Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Marine transport IMDG:

UN no. 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Bisphenol-A Epichlorhydrin resin)
Class or division 9
Packaging group III
EmS F-A ,S-F
Seawater pollutant Marine pollutant

Air transport IATA:

UN no. 3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)
Class or division: 9
Packaging group: III
Packaging instructions (passenger) 964
Packaging instructions (cargo) 964

Further information for transport: The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

15. Regulatory Information

SUSDP Poisons Schedule 5

AICS All components are listed or are exempt from listing on the Australian Inventory of Chemical Substances (AICS).

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16. Other Information

Date of preparation or last revision of SDS	30/8/16
Contact Person/Point	Shamrock Australia Pty Ltd Phone: +61 3 9895 4300 (International) Fax: +61 3 9895 4399 (International) Poisons Information Centre 13 11 26 (Australia) 0800 764 766 (New Zealand)

Abbreviations and acronyms:

ADGC: Australian Dangerous Goods Code

IMDG: International Maritime Code Dangerous Goods

IATA-DGR: International Air Transport Association

The information and recommendations set down here in this document are presented in good faith and to the best of Shamrock Australia's knowledge. Shamrock Australia Pty Ltd cannot predict or control all conditions of use or handling of this product and each user must review this document in the context of the conditions under which they intend to handle and use this product. It is the responsibility of the user to ensure a proper assessment has been carried out. No representations or warranties, either expressed or implied, or merchantability, fitness for purpose or any other nature are made hereunder with respect to the product to which this information refers.

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1. Identification of Material and Supplier

GHS Product Identifier	Glass Coat LIQUID GLOSS (PART B – HARDENER)
Company Name	Shamrock Australia Pty Ltd
Address	21-23 Joseph Street Blackburn North Victoria, 3130 Australia
Telephone/Fax Number	Phone: +61 3 9895 4300 Fax: +61 3 9895 4399
Emergency Phone Number	24 hours
Recommended use of the chemical and restrictions on use	Glass Coat Liquid Gloss Part B Hardener component used in conjunction with Glass Coat Liquid Gloss Part A Resin to form an epoxy resin system that provides a tough, durable and high gloss coating.
Other Information	This SDS summarises to the best of our knowledge the health and safety hazard information of the product and how to safely handle and use the product in the workplace.

2. Hazards Identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Route of Exposure</u>
Acute toxicity	Category 4	Oral
Acute toxicity	Category 4	Inhalation
Skin corrosion	Category 1B	
Serious eye damage/eye irritation	Category 1	
Skin sensitizer	Category 1	

Hazard pictogram:



Signal word:

DANGER

Hazard Statement(s)

H302+H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary Statement(s):

Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated

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clothing. Rinse skin with water/shower.

P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTRE or physician.

P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

Storage: P405 Store locked up.

Disposal: P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Signal word:
HAZARDOUS

3. Composition/Information on Ingredients

Type of preparation: Hardener

Identity of ingredients:

Chemical Ingredients	CAS-No.	Proportion
Benzyl alcohol	100-51-6	30-60%
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	10-30%
Non hazardous ingredients		30-60%

4. First-Aid Measures

Ingestion: Do not induce vomiting. Have victim rinse mouth thoroughly with water. Get immediate medical attention.

Skin: In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Get immediate medical attention.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get immediate medical attention.

Inhalation: Move to fresh air. Keep warm and in a quiet place. Seek medical advice.

First Aid facilities: Eye wash & safety shower. Normal washroom facilities.

Medical attention and special treatment: Treat symptomatically.

5. Fire-Fighting Measures

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Suitable extinguishing media:	Carbon dioxide, foam, powder Fine water spray.
Improper extinguishing agent:	Water spray jet.
Combustion behaviour:	In case of fire toxic gases can be released.
Decomposition products in case of fire:	Thermal decomposition can lead to release of irritating gases and vapours. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Ammonia.
Special protective equipment for fire fighters:	Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated firefighting water separately. It must not enter drains.
Hazchem code:	2X

6. Accidental Release Measures

Personal precautions:	Remove sources of ignition. Danger of slipping on spilled product. Ensure adequate ventilation. Avoid skin and eye contact. Wear impervious gloves and chemical splash goggles.
Environmental precautions:	Do not empty into drains/surface water/ground water.
Clean-up methods:	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labelled closed container. Dispose of contaminated material as waste according to Section 13.

7. Handling and Storage

Precautions for safe handling:	For the Part A plus Part B adhesive mixture, follow curing schedule as recommended in product literature. Empty containers retain product residue, so obey hazard warnings and handle empty containers as if they were full. Do not cut, grind, weld, or drill on or near this container. Avoid breathing mists or aerosols of this product. Avoid contact with eyes, skin and clothing.
Conditions for safe storage:	Store in sealed original container. Store in a cool, dry place. Ensure that storage and workrooms are adequately ventilated. Keep away from heat and direct sunlight. Store away from incompatible materials.

8. Exposure Controls / Personal Protection

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National exposure standards:	None
Engineering controls:	Ensure good ventilation/suction at the workplace.
Eye protection:	For eye protection, use tightly fitted safety goggles and a face-shield.
Skin protection:	Use of protective coveralls and long sleeves is recommended. The use of nitrile-latex gloves is recommended. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
Respiratory protection:	If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

9. Physical and chemical properties

Appearance:	colourless clear
Odor:	Characteristic
Flash point:	> 110 °C (> 230 °F)
Density:	1.00 - 1.10 g/cm ³
Solubility:	slightly soluble

10. Stability and Reactivity

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Danger of decomposition if exposed to heat. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately.
Incompatible materials:	Reaction with epoxy resins and/or isocyanates in large amounts or under uncontrolled conditions releases considerable heat and may release acrid fumes. Oxidizing agents. Acids.
Hazardous decomposition products:	Thermal decomposition can lead to release of irritating gases and vapours. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Ammonia.
Hazardous polymerization:	Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

11. Toxicological Information

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Health Effects:

Ingestion:

Harmful if swallowed.

Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed.

Skin:

Corrosive to skin.

Symptoms may include redness, burning, drying, cracking and skin burns.

May cause skin sensitization.

Eyes:

Causes serious eye damage.

Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excessive blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation:

Harmful if inhaled.

Inhalation of vapours or mist can cause severe irritation, tissue and scarring of the respiratory tract.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Benzyl alcohol 100-51-6	LD50	1,620 mg/kg	oral inhalation inhalation	4 h	rat	Expert judgement
	Acute toxicity estimate (ATE)	4.17 mg/l			rat	
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	LD50	1,030 mg/kg	oral inhalation	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
	LC50	>5.01 mg/l			rat	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Benzyl alcohol 100-51-6	Not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation/Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Benzyl alcohol 100-51-6	Category II	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation/Corrosion)
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation/Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Benzyl alcohol 100-51-6	Not sensitizing	Guinea pig maximisation test	guinea pig	Magnusson and Kligman Method
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	Sensitizing	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitization)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study/Route of administration	Metabolic activation/Exposure time	Species	Method
Benzyl alcohol	Negative	Bacterial	With and without		

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100-51-6		reverse mutation assay (e.g Ames test)			
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	Negative	Bacterial reverse mutation assay (e.g Ames test)	With and without		EU Method B.13/14 (Mutagenicity)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time/frequency of treatment	Species	Method
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	LOAEL=<160 mg/kg	Oral: drinking water	13 weeks	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in rodents)
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	NOAEL=<60 mg/kg	Oral: drinking water	13 weeks	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in rodents)

12. Ecological Information

General ecological information: Do not empty into drains/surface water/ground water.

Toxicity:

Hazardous components CAS-No.	Value Type	Value	Acute Toxicity Study	Exposure time	Species	Method
Benzyl alcohol 100-51-6	LC50	646 mg/l	Fish	48 h	Leuciscus idus	DIN 38412-15
Benzyl alcohol 100-51-6	EC50	360 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Benzyl alcohol 100-51-6	EC50	640 mg/l	Algae	96 h	Scenedesmus quadricauda	OECD Guideline 201 (Algal Growth Inhibition Test)
Benzyl alcohol 100-51-6	EC10	658 mg/l	Bacteria	17 h		
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	LC50	110 mg/l	Fish	96 h	Leuciscus idus	EU Method C.1 (Acute Toxicity for Fish)
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC50	42 mg/l	Daphnia	24 h	Daphnia magna	
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	NOEC	1.5 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU Method C.3 (Algal Inhibition Test)
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC50	37 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	EU Method C.3 (Algal Inhibition Test)
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC10	1,120 mg/l	Bacteria	18 h		

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Benzyl alcohol 100-51-6	readily biodegradable	aerobic	92-96%	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2		aerobic	8%	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential/Mobility in soil:

Hazardous	LogKow	Bioconcentration	Exposure	Species	Temperature	Method
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components CAS-No.		factor (BCF)	time			
Benzyl alcohol 100-51-6	1.08					

13. Disposal Considerations

Waste disposal of product: Dispose of as hazardous waste in compliance with local and national regulations.
Do not allow product to enter sewer or waterways.

Disposal for uncleaned package: Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

14. Transport Information

Road and Rail Transport:

Dangerous Goods information: Classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).
UN no.: 2289
Proper shipping name: ISOPHORONEDIAMINE (solution)
Class or division: 8
Packaging group: III
Hazchem code: 2X
Emergency information: Refer to the Dangerous Goods - Initial Emergency Response Guide HB 76.

Marine transport IMDG:

UN no.: 2289
Proper shipping name: ISOPHORONEDIAMINE (solution)
Class or division: 8
Packaging group: III
EmS: F-A ,S-B
Seawater pollutant: -

Air transport IATA:

UN no.: 2289
Proper shipping name: Isophoronediamine (solution)
Class or division: 8
Packaging group: III
Packaging instructions (passenger) 852
Packaging instructions (cargo) 856

15. Regulatory Information

SUSDP Poisons Schedule: 5

16. Other Information

Date of preparation 22/9/16

Glass Coat LIQUID GLOSS

Safety Data Sheet

or last revision of SDS

Contact Person/Point Shamrock Australia Pty Ltd
Phone: +61 3 9895 4300 (International)
Fax: +61 3 9895 4399 (International)

Poisons Information Centre
13 11 26 (Australia)
0800 764 766 (New Zealand)

Abbreviations and acronyms:

ADGC: Australian Dangerous Goods Code

IMDG: International Maritime Code Dangerous Goods

TWA – Time Weighted Average

The information and recommendations set down here in this document are presented in good faith and to the best of Shamrock Australia's knowledge. Shamrock Australia Pty Ltd cannot predict or control all conditions of use or handling of this product and each user must review this document in the context of the conditions under which they intend to handle and use this product. It is the responsibility of the user to ensure a proper assessment has been carried out. No representations or warranties, either expressed or implied, or merchantability, fitness for purpose or any other nature are made hereunder with respect to the product to which this information refers.