R60 Techniglue-CA Resin

Version 2



Section 1: Identification of the Material and the Supplier

Trade Name : R60 Techniglue-CA Resin

Product Code : R60

Recommended Use : Used in conjunction with epoxy curing agent for

adhesive and composite applications

Company : ATL Composites

Address : 12-14 Production Ave Ernest 4214

Telephone : +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

Emergency telephone

number : +61 7 5563 1222 (Monday-Friday 8:30am-5:00pm)

Revision Date : 1 February 2011

Section 2: Hazards Identification

HAZARDOUS SUBSTANCES CLASSIFICATION: Classified as hazardous to health according to the criteria of the National Occupational Health and Safety Commission, Australia

Hazard Symbol

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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.

Safety Phrases

S24	Avoid Contact with skin
S28	After contact with skin, wash immediately with plenty of soap-suds.
S37/39 Wear suitable gloves and eye / face protection.	
S61	Avoid release to the environment. Refer to special instructions/ safety datasheet.

Section 3: Composition / Information on Ingredients

Chemical Name	CAS No.	Weight %
4,4'-Isopropylidenediphenol- epichlorohydrin copolymer Common Name: Bisphenol A diglycidyl ether polymer	25068-38-6	>60
Phenol-formaldehyde polymer glycidyl ether Common Name : Bisphenol F diglycidyl ether polymer	28064-14-4	10 - <30

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Benzyl Alcohol	100-51-6	<10
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Section 4: First Aid Measures

Inhalation : Remove victim to fresh air and provide oxygen if breathing is

difficult. Give artificial respiration if not breathing. Get medical

attention.

Skin contact : Remove contaminated clothing/shoes and wipe excess from

skin. Flush skin with water. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned. Contaminated leather articles, including shoes, cannot be decontaminated and should be

destroyed to prevent reuse.

Eye contact : Flush eyes with plenty of water for 15 minutes while holding

eyelids open. Get medical attention.

Ingestion : Do not induce vomiting. In general, no treatment is

Necessary unless large quantities of product are ingested.

However, get medical advice.

Workplace facilities : Eye wash facilities required.

Skin cleaning products should be made available.

Notes to physician

Symptoms

Irritation of the skin and eyes

Treat symptomatically. Dermatitis may result from prolonged

or repeated exposure.

Section 5: Fire Fighting Measures

Specific hazards during fire

Fighting:

Not classified as flammable but will burn. Hazardous combustion products may include carbon monoxide.

Clear fire area of all non-emergency personnel. Cool fire exposed containers with water. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

Suitable extinguishing

media:

Special protective

equipment for fire-fighters:

Use water fog, foam, dry chemical or carbon dioxide.

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). including a positive pressure NIOSH approved

selfcontained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions : May burn although not readily ignitable.

Use cautious judgement when cleaning up large spills.

Shut off leaks, if possible without personal risk.

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Environmental precautions: Dike and contain.

Contain run-off and dispose of properly.

Remove contaminated soil to remove contaminated trace residues. Prevent from entering into drains, ditches or rivers.

Clean-up methods - small

spillage:

Soak up with an absorbent such as clay, sand or other

suitable material.

Place in non-leaking container. Seal tightly for proper disposal.

Clean-up methods - large

spillage:

Remove with vacuum trucks or pump to storage/salvage

vessels.

Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for

proper disposal.

Flush area with water to remove trace residue.

Section 7: Handling and Storage

Advice on safe handling: Avoid prolonged or repeated contact with skin, eyes and

clothing Avoid contact with skin, eyes and clothing Wash thoroughly after handling. WARNING. May cause skin and

eye irritation. May cause skin sensitization.

Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes, cannot be decontaminated and

should be destroyed to prevent reuse.

Storage

Requirements for storage areas and containers:

Store in a cool, dry place with adequate ventilation. Keep containers closed when not in use. Keep away from open

flames and high temperatures.

Section 8: Exposure Controls / Personal Protection

Workplace exposure standards: No exposure standards have been established for product

components.

Protective measures : Wear protective clothing specified for normal operations.

Eye protection : Avoid contact with eyes.

Wear chemical goggles if there is potential contact with eyes.

Safety spectacles

Hand protection : Butyl

EVAL-Laminate

Skin and body protection: Wear chemical-resistant gloves and other clothing as

required to minimise contact.

Respiratory protection: No respiratory protection is usually required under normal

conditions of use. Product is not intended for spray

application.

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Section 9: Physical and Chemical Properties

Form : Gel

Colour : Opaque

Odour : Little

pH : Not available

Melting Point : Not Determined

Boiling Point : >200°C

Flash Point : >100°C (ASTM D-93 / PMCC)

Vapour Pressure : Heavier than air.

Density : 1.00 to 1.10

Solubility in water : Not miscible

Section 10: Stability and Reactivity

Conditions to avoid : Avoid high temperatures.

Materials to avoid : Can react vigorously with strong oxidizing agents, strong

lewis or mineral acid, and strong mineral and organic bases.

Avoid contact with water or liquids.

Do not allow molten product to contact water or other liquids. Reaction with some curing agents may produce considerable

heat and possible violent decomposition.

Hazardous reactions : Stable under normal use conditions.

Hazardous polymerization will not occur.

Section 11: Toxicological Information

Acute oral toxicity : LD50 - Low toxicity, LD50 > 2000 mg/kg. Acute dermal toxicity : LD50 - Low toxicity, LD50 > 2000 mg/kg.

Acute inhalation toxicity: LC50 - Expected to be of low toxicity, LC50 > 5 mg/l., If mists

are inhaled, slight irritation of the respiratory tract may occur.

Eye irritation : Slightly irritating to the eyes.
Skin irritation : Expected to be irritant.
Sensitization : Skin sensitiser.

Repeated dose toxicity: Repeated exposure does not cause significant toxic effects.

Carcinogenicity : Recent 2-year bioassays in rats and mice exposed by the

dermal route to the diglycidyl ether of bisphenol A (BADGE) yielded no evidence of carcinogenicity to the skin or any

other organs.

Potential Health Effects

Inhalation : Not expected to be a relevant route of exposure, however,

under conditions where exposure to vapors or mists is

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possible, could cause respiratory tract irritation.

Skin : May be mildly irritating to the skin.

May cause skin sensitization.

Eyes : May be mildly irritating to the eyes.

Ingestion : Not likely to be a relevant route of exposure.

Section 12: Ecological Information

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: Bioconcentration potential is moderate (BCF between 100

and 3000 or Log Pow between 3 and 5). Measured log octanol/water partition coefficient (log Pow) is 3.7-3.9. Potential for mobility in soil is low (Koc between 500 and 2000). Soil organic carbon/water partition coefficient (Koc) is estimated to be 1800-4400. Henry's Law Constant (H) is estimated to be <6.94E-09 atm-m3/mole. Log octanol/water partition coefficient (log Pow) is estimated, using a structural

fragment method, to be 3.84.

DEGRADATION & PERSISTENCE: Theoretical oxygen demand (ThOD) is calculated to be

2.35 p/p. In the atmospheric environment, material is estimated to have a tropospheric half-life of 1.92 hr. Biodegradation reached in Modified Zahn-Wellens/EMPA Test. (OECD Test No. 302B) after 28 days: 12%. The 20-Day

Biochemical Oxygen Demand (BOD20) is <2.5%.

ECOTOXICOLOGY: Material is moderately toxic to aquatic organisms on an acute

basis (LC50 or EC50 between 1 and 10 mg/L in the most sensitive species tested). Acute LC50 in water flea Daphnia

magna is 1.3 mg/L. Acute LC50 in fathead minnow (Pimephales promelas) is 3.1 mg/L. Toxicity to aquatic species occurs at concentrations greater than water solubility. Maximum acceptable toxicant concentration (MATC) in water flea.Daphnia magna is 0.55 mg/L. Growth inhibition threshold in bacteria is >42.6 mg C/L. Inhibitory concentration (IC50) in OECD Activated Sludge Respiration

Inhibition Test (OECD Test No. 209) is >100 mg/L.

Section 13: Disposal Considerations

DISPOSAL : DO NOT DUMP INTO ANY SEWERS, ON THE GROUND,

OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and

local laws and regulations.

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction

device.

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Section 14: Transport Information

ADR :

Proper Shipping Name : Environmentally hazardous substance,

liquid, n.o.s

UN Number : 3082 Class : 9 Packaging group : III

IMO/IMDG

Proper Shipping Name : Environmentally hazardous substance,

liquid, n.o.s

UN Number : 3082 Class : 9 Packaging group : III

ICAO/IATA

Proper Shipping Name : Environmentally hazardous substance,

liquid, n.o.s

UN Number : 3082
Class : 9
Packaging group : III
Cargo Packing Instruction : 914
Passenger Packing Instruction : 914

HAZCHEM CODE : 3Z

Section 15: Regulatory Information

The principal components and additives of this

product are included in the Australian Inventory of Chemical Substances (AICS) or comply with the requirements of the Industrial Chemicals (Notification and Assessment) Act 1989.

Poisons S5

Schedule

HAZARDOUS SUBSTANCES

Category CLASSIFICATION: Irritant. Sensitiser.

Packaging & Product is labelled in accordance with the Code Labelling Workplace Substances.

Section 16: Other Information

Contact Person/Point

PRODUCT INFORMATION MANAGER: (+61) 7 5563 1222

12-14 Production Av Ernest

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.