

Material Safety Data Sheet

Infosafe No™ LPUB9 Issue Date : September 2012 ISSUED by BARNES

Product Name : **EASYCAST® PART A**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name EASYCAST® PART A
Company Name Barnes Products Pty Ltd (ABN 004 011 456)
Address 6 Homedale Road Bankstown
NSW 2200
Emergency Tel. (02) 9793 7555
Telephone/Fax Number Tel: (02) 9793 7555
Fax: (02) 9793 7091
Recommended Use Casting resin.
Other Names Name Product Code
BQUEEN PART A
BQUEEN RESIN PART A
ROTOTHANE PART A
4PU PART A

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Acute Toxicity - Inhalation: Category 4
Sensitization - Respiratory: Category 1
Sensitization - Skin: Category 1
Skin Corrosion/Irritation: Category 2
Eye Damage/Irritation: Category 2A
Carcinogenicity: Category 2
STOT Single Exposure Category 3 (respiratory tract irritation)
STOT Repeated Exposure Category 2

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Diphenylmethane-4,4'-diisocyanate	101-68-8	30-60 %		
	Ingredients determined not to be hazardous.		Balance		
Other Information	Synonym: Methylene bisphenyl isocyanate (MDI).				

4. FIRST AID MEASURES

Inhalation If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.
Ingestion Do NOT induce vomiting. Wash out mouth with water. If symptoms develop seek medical attention.
Skin Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.
First Aid Facilities Eye wash and normal washroom facilities.
Advice to Doctor Treat symptomatically.
Other Information For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

5. FIRE FIGHTING MEASURES

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Suitable Extinguishing Media Use carbon dioxide, dry chemical or foam.

Hazards from Combustion Products Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases, including carbon monoxide, carbon dioxide, nitrogen oxides, isocyanate vapours and traces of hydrogen cyanide.

Specific Hazards Combustible liquid. This product will readily burn under fire conditions.

Decomposition Temp. Not available

Precautions in connection with Fire Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) and full protective clothing to prevent exposure to vapours, fumes or products of combustion. Water spray may be used to cool down heat-exposed containers.

Unsuitable Extinguishing Media Do not use water jet.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations. Spilled area should be decontaminated with the following decontamination: 90% water, 2% detergent and 3-8% ammonia. Spilled material should be treated with the decontamination solution and containers left open in a well ventilated area for 48 hours. Do not seal the containers since carbon dioxide is generated upon contact with moisture and dangerous pressure buildup can occur.

7. HANDLING AND STORAGE

Precautions for Safe Handling Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Avoid inhalation of vapours and mists, and skin or eye contact. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

Storage Temperatures Store between 101-35°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure value assigned for this specific material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:

Safe Work, Australia Exposure Standards:

Substance	TWA		STEL		NOTICES
	ppm	mg/m ³	ppm	mg/m ³	
Isocyanates, all (as NCO)	-	0.02	-	0.07	Sen

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal

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	eight-hour workday. 'Sen' Notice: The substance may cause sensitisation by skin contact or by inhalation.
Biological Limit Values	No biological limit allocated.
Engineering Controls	Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter may be necessary. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material, such as nitrile or PVC. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable workwear, e.g. cotton overalls buttoned at neck and wrist should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear yellow liquid
Odour	Mild acrid odour
Decomposition Temperature	Not available
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Insoluble, reacts with water
Specific Gravity	1.20 (25°C)
pH Value	Not applicable
Vapour Pressure	0.0007 mmHg (20°C) (estimated)
Vapour Density (Air=1)	Not available
Evaporation Rate	Not available
Odour Threshold	Not available
Viscosity	<150 cP
Colour	Yellow
Flash Point	>148°C
Flammability	Not flammable
Auto-Ignition Temperature	Not applicable
Flammable Limits - Lower	Not applicable
Flammable Limits - Upper	Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity	Reacts with incompatibles.
Chemical Stability	Stable under normal conditions of storage and handling.

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Conditions to Avoid	Heat, flames and other sources of ignition. Avoid temperatures above 35°C.
Incompatible Materials	Oxidising agents, water, acids, bases, alcohols and some metals (eg. aluminium, copper, brass)
Hazardous Decomposition Products	Thermal decomposition and combustion produce noxious fumes including carbon monoxide, carbon dioxide, nitrogen oxides, isocyanate vapours and traces of hydrogen cyanide.
Hazardous Reactions	Will react with water, acids, bases, alcohols and amines. Reaction with water liberates carbon dioxide.
Hazardous Polymerization	Hazardous self-polymerisation may occur at elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	No toxicity data available for this material. The available acute toxicity data for the ingredients is given below:
Inhalation	Harmful if inhaled. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system. Prolonged or repeated exposure through inhalation of product may lead to sensitisation and occupational asthma.
Ingestion	Ingestion may cause irritation to the gastric tract, with stomach pain, nausea and vomiting.
Skin	Causes skin irritation. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. Prolonged or repeated skin contact may lead to allergic contact dermatitis and sensitisation in some individuals.
Eye	Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.
Reproductive Toxicity	Not considered to be toxic to reproduction.
Carcinogenicity	Suspected of causing cancer. Classified as a suspected human carcinogen.
Acute Toxicity - Oral	Diphenylmethane-4,4'-diisocyanate: LC50 (Rat): 9,200 mg/m ³
Acute Toxicity - Inhalation	Diphenylmethane-4,4'-diisocyanate: LC50 (Rat): 178 mg/m ³
Skin Sensitisation	May cause an allergic skin reaction.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No ecological data are available for this material.
Persistence / Degradability	Not available
Mobility	Not available
Bioaccumulative Potential	Not available
Environ. Protection	Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Dispose of waste according to applicable local and national regulations.
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14. TRANSPORT INFORMATION

Transport Information	Road and Rail Transport (ADG Code): Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition). Marine Transport (IMO/IMDG): Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. Air Transport (ICAO/IATA): Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
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15. REGULATORY INFORMATION

Regulatory Information Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Poisons Schedule Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
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16. OTHER INFORMATION

Date of preparation or last revision of MSDS SDS Reviewed: September 2012
Supersedes: July 2008
...End Of MSDS...

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