

PRODUCT NAME BELLASTONE (TM) SEAMLESS STANDARD ADHESIVE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier Name JUST STONE PTY LTD
Address Unit B, 13 - 21 Mandible Street, Alexandria , NSW, Australia, 2015
Telephone (02) 9310 3222
Fax (02) 9310 3444
Emergency 0412 744 944
Email enquiries@juststone.com.au
Web Site

Synonym(s) JUST STONE SEAMLESS STANDARD ADHESIVE

Use(s) ADHESIVE, TWO COMPONENT PACK

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R11 Highly flammable.
 R37/38 Irritating to respiratory system and skin.
 R43 May cause sensitisation by skin contact.

SAFETY PHRASES

S2 Keep out of reach of children.
 S24 Avoid contact with skin.
 S39 Wear eye/face protection.
 S46 If swallowed, contact a doctor or Poisons Information Centre immediately and show container or label.

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	1133	Hazchem Code	3[Y]E	Pkg Group	II
DG Class	3	Subsidiary Risk(s)	None Allocated	EPG	3A1

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
METHYL METHACRYLATE	C5-H8-O2	40-70%	80-62-6
TRIMETHYLOLPROPANE TRIACRYLATE	C15-H20-O6	1-10%	15625-89-5

4. FIRST AID MEASURES

Eye Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.

Inhalation If over exposure occurs, leave area of exposure immediately. If other than minor symptoms occur, seek urgent medical attention. If assisting a victim avoid becoming a casualty, wear a Full-face Type A (Organic vapour) respirator or Air-line respirator.

Skin Remove contaminated clothing and gently flush affected areas with water. Seek medical attention if irritation develops. Launder clothing before reuse.

Ingestion DO NOT induce vomiting. Immediately wash out mouth with water, and then give water to drink. Seek medical attention.

Advice to Doctor Treat symptomatically

PRODUCT NAME **BELLASTONE (TM) SEAMLESS STANDARD ADHESIVE**

5. FIRE FIGHTING MEASURES

Flammability	Highly flammable. Vapours may form explosive mixtures with air. May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones etc. when handling. Earth containers when dispensing fluids.
Fire and Explosion	Highly flammable - explosive vapour. Evacuate area and contact emergency services. Toxic gases may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment (see spill above) including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Dry agent, carbon dioxide or foam. Prevent contamination of drains or waterways. Absorb runoff with sand or similar.
Hazchem Code	3[Y]E

6. ACCIDENTAL RELEASE MEASURES

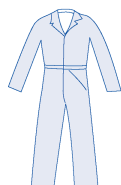
Spillage	If spilt (bulk), contact emergency services. Wear PVA gloves, a Type A (Organic vapour) respirator or an Air-line respirator, coveralls and boots. Eliminate all ignition sources. Ventilate and clear area of all unprotected personnel. Absorb with sand or similar and place in sealable containers for disposal. Prevent spill entering drains or waterways.
-----------------	--

7. STORAGE AND HANDLING

Storage	Store in cool, dry, dark well ventilated area. Polymerises in light. Store away from oxidising agents (eg nitrates), acids, alkalis, amines, direct sunlight, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled and protected from physical damage when not in use. Large storage areas should have appropriate fire protection and ventilation systems.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas (eg. if container is damaged).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back. Maintain vapour levels below the recommended standard.
Exposure Standards	METHYL METHACRYLATE (80-62-6) ES-STEL : 100 ppm (416 mg/m ³) ES-TWA: 50 ppm (208 mg/m ³) Methyl methacrylate WES-TWA: 50 ppm (208 mg/m ³)
PPE	Wear splash-proof goggles, a Type A (Organic vapour) Respirator, coveralls and PVA gloves. If spraying, wear an Air-line respirator and a Type A-Class P1 (Organic vapour and Particulate) Respirator. If sanding dry product, wear a Class P1 (Particulate) Respirator.



PRODUCT NAME BELLASTONE (TM) SEAMLESS STANDARD ADHESIVE

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	LIQUID	Solubility (water):	NOT AVAILABLE
Odour:	MILD ESTER ODOUR	Specific Gravity:	0.93 - 1.05
pH:	NOT AVAILABLE	% Volatiles:	NOT AVAILABLE
Vapour Pressure:	28 mm Hg @ 20 C	Flammability:	HIGHLY FLAMMABLE
Vapour Density:	3.5 (Air = 1)	Flash Point:	10 C (cc)
Boiling Point:	100.6 C	Upper Explosion Limit:	12.5 %
Melting Point:	-47.8 C	Lower Explosion Limit:	2.1 %
Evaporation Rate:	3 (n-Butyl acetate = 1)	Autoignition Temperature:	NOT AVAILABLE
Exposure Standard:	50 ppm Methyl methacrylate		

10. STABILITY AND REACTIVITY

Reactivity	May polymerise in contact with oxidising agents (eg. nitrates), acids, amines, UV light, alkalis, or if heated. Polymerisation may generate heat with potential for fire-explosion.
Decomposition Products	May evolve toxic gases (carbon oxides, hydrocarbons) when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Toxic. This product has the potential to cause adverse health effects with over exposure. Use safe work practices to avoid eye or skin contact and vapour generation or inhalation. Skin sensitiser. Chronic exposure may cause fatigue, headache, sleep disturbances, irritability, loss of memory and pains in the extremities.
Eye	Irritant. Exposure may result in lacrimation, pain, conjunctivitis, violent itching, corneal burns and possible permanent damage with prolonged exposure.
Inhalation	Toxic - narcotic. Over exposure may result in mucous membrane irritation of the nose and throat, headache and fatigue. At high levels; breathing difficulties, chemical pneumonitis, pulmonary oedema and respiratory failure.
Skin	Irritant - toxic. Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption. Potential sensitising agent.
Ingestion	Toxic - narcotic. Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea. Large doses; drowsiness, liver/ kidney damage and unconsciousness. Aspiration may result in chemical pneumonitis and pulmonary oedema.
Toxicity Data	METHYL METHACRYLATE (80-62-6) LD50 (Ingestion): 3625 mg/kg (mouse) LD50 (Skin): > 5000 mg/kg (rabbit) TRIMETHYLOLPROPANE TRIACRYLATE (15625-89-5) LD50 (Ingestion): 5190 uL/kg (rat) LD50 (Skin): 5170 mg/kg (rabbit)

12. ECOLOGICAL INFORMATION

Environment	If emitted into the atmosphere it will rapidly photodegrade. If released into soil or water methyl methacrylate will be principally lost by volatilisation, though in soil some leaching to groundwater will occur. Will biodegrade at a moderate rate. Not expected to bioconcentrate in fish.
--------------------	---

13. DISPOSAL CONSIDERATIONS

Waste Disposal	Mix parts A + B together (small amounts), absorb with sand, vermiculite or similar and dispose of to an approved landfill site. Ensure protective equipment is worn when mixing. Do not seal containers/tins until reaction is complete. Contact the manufacturer for additional information. Prevent contamination of drains or waterways as environmental damage may result.
Legislation	Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Shipping Name	ADHESIVES containing flammable liquid				
UN No.	1133	Hazchem Code	3[Y]E	Pkg Group	II
DG Class	3	Subsidiary Risk(s)	None Allocated	EPG	3A1

15. REGULATORY INFORMATION

Poison Schedule	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
AICS	All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Additional Information

This product is intended for use with BellaStone (TM) Seamless Standard Activator. Please consult the appropriate Chem Alert report before use.

ACRYLIC - ACRYLAMIDE RESINS: These resins are generally of low toxicity. Toxicity increases with presence of significant concentrations of acrylic - acrylamide monomers. These monomers have been linked with the development of skin sensitisation.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer 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 RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts 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 MSDS.

Prepared By

Risk Management Technologies
5 Ventnor Ave, West Perth
Western Australia 6005
Phone: +61 8 9322 1711
Fax: +61 8 9322 1794
Email: info@rmt.com.au
Web: www.rmt.com.au

MSDS Date: 1 April 2008

End of Report