

SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Synonym(s)

Product name PERMA-MEND REPAIR PATCH

14089, 14094, 14096 - PRODUCT CODES • CRC PERMA-MEND REPAIR PATCH

1.2 Uses and uses advised against

FIBREGLASS REPAIR • REPAIR AGENT Use(s)

13 11 26 (PIC)

DANGER

1.3 Details of the supplier of the product

Supplier name	CRC INDUSTRIES (AUST) PTY LIMITED
Address	9 Gladstone Road, Castle Hill, NSW, 2154, AUSTRALIA
Telephone	(02) 9849 6700
Fax	(02) 9680 4914
Email	info@crcind.com.au
Website	www.crcindustries.com.au

1.4 Emergency telephone number(s)

Emergency

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS

GHS classification(s) Carcinogenicity: Category 2 Serious Eye Damage / Eye Irritation: Category 2B Skin Sensitization: Category 1 Respiratory Sensitization: Category 1

2.2 Label elements

Signal word

Pictogram(s)



Hazard statement(s)

Prevention statem	
H351	Suspected of causing cancer.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H320	Causes eye irritation.
H317	May cause an allergic skin reaction.

revention statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P285	In case of inadequate ventilation wear respiratory protection.

PRODUCT NAME PERMA-MEND REPAIR PATCH

Response statement(s	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P341	IF INHALED: If breathing is difficult, 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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P321	Specific treatment is advised - see first aid instructions.
P363	Wash contaminated clothing before reuse.
Storage statement(s)	
P405	Store locked up.
Disposal statement(s)	
P501	Dispose of contents/container in accordance with relevant regulations.
2.3 Other hazards No information provided	

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
STYRENE	100-42-5	202-851-5	<1%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder
MINERAL FILLER(S)	-	-	20 to 30%
POLYESTER RESIN	-	-	20 to 30%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Eye	Exposure is considered unlikely.
Inhalation	Due to product form / nature of use, an inhalation hazard is not anticipated.
Skin	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Ingestion	For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). Due to product form and application, ingestion is considered unlikely.
First aid facilities	No information provided.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes. May cause sensitisation by inhalation and skin contact. Suspected of causing cancer.

4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve carbon oxides and hydrocarbons when heated to decomposition.

5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

5.4 Hazchem code

None allocated.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

6.2 Environmental precautions

Prevent product from entering drains and waterways.

6.3 Methods of cleaning up

If spilt, collect and reuse where possible.

6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

7. HANDLING AND STORAGE

7.1 Precautions for safe 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry area. Ensure containers are tightly sealed, adequately labelled and protected from physical damage.

7.3 Specific end use(s)

No information provided.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure standards

Ingredient	Reference	TWA		STEL	
Ingredient	Reference	ppm	mg/m³	ppm	mg/m³
Styrene, monomer	SWA (AUS)	50	213	100	426

Biological limits

Ingredient	Determinant	Sampling Time	BEI
STYRENE	Mandelic acid plus phenylglyoxylic acid in urine	End of shift	400 mg/g creatinine
	Styrene in venous blood	End of shift	0.2 mg/L

Reference: ACGIH Biological Exposure Indices

8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Maintain dust / fume levels below the recommended exposure standard.

PPE

Eye / Face	When using large quantities or where heavy contamination is likely, wear safety glasses.
Hands	When using large quantities or where heavy contamination is likely, wear viton (R) gloves.
Body	Not required under normal conditions of use.
Respiratory	At high vapour levels, wear a Type A (Organic vapour) respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	GREY SOLID PATCH
Odour	STYRENE ODOUR
Flammability	NON FLAMMABLE
Flash point	NOT AVAILABLE
Boiling point	NOT AVAILABLE

PRODUCT NAME PERMA-MEND REPAIR PATCH

9.1 Information on basic physical and chemical properties

NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
NOT AVAILABLE
INSOLUBLE
NOT AVAILABLE
NOT RELEVANT
NOT RELEVANT
NOT AVAILABLE

10. STABILITY AND REACTIVITY

10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

10.2 Chemical stability

No information provided.

10.3 Possibility of hazardous reactions

No information provided.

10.4 Conditions to avoid

No information provided.

10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites).

10.6 Hazardous decomposition products

May evolve carbon oxides and hydrocarbons when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Information available for the product: Based on available data, the classification criteria are not met.

Information available for the ingredient(s):

Ingredient		Oral Toxicity (LD50)	Dermal Toxicity (LD50)	Inhalation Toxicity (LC50)	
STYRENE		316 mg/kg (mouse)		9500 mg/m³/4 hours	
Skin	Contact may result in irritation, redness, rash and dermatitis.				
Еуе	Contact may result in irritation, lacrimation, pain and redness.				
Sensitization	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
Mutagenicity	Not classified as a mutagen.				
Carcinogenicity	Styrene is classified as possibly carcinogenic to humans (IARC Group 2B).				
Reproductive	Not classified as a reproductive toxin.				
STOT – single exposure	Not classified as causing organ damage from single exposure.				
STOT – repeated exposure	Not classified as causing organ damage from repeated exposure.				
Aspiration	Not classified as causing asp	piration.			

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No information provided.

12.2 Persistence and degradability

No information provided.

12.3 Bioaccumulative potential

No information provided.

12.4 Mobility in soil

No information provided.

12.5 Other adverse effects

No information provided.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste disposal Dispose of to an approved landfill or waste processing site. Contact the manufacturer/supplier for additional information (if required).

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA

	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	None Allocated	None Allocated	None Allocated
14.2 Proper Shipping Name	None Allocated	None Allocated	None Allocated
14.3 Transport hazard class	None Allocated	None Allocated	None Allocated
14.4 Packing Group	None Allocated	None Allocated	None Allocated

14.5 Environmental hazards No information provided

14.6 Special precautions for user

Hazchem code None Allocated

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture				
Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).				
Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.				
The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004)].				
Carc. Xi	Carcinogen Irritant			
R40 R42/43	Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact.			
S36/37 S45 S53	Wear suitable protective clothing and gloves. In case of accident or if you feel unwell seek medical advice immediately (show the label where possible). Avoid exposure - obtain special instructions before use.			
C SL TS CX FF SS	Classified as a Safework Aus Labelling of Ch The classificat Substances [N Carc. Ki R40 R42/43 S36/37 S45			

PRODUCT NAME PERMA-MEND REPAIR PATCH

Inventory listing(s) AUSTRALIA: AICS (Australian Inventory of Chemical Substances) All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information	PERSONAL PROTECTIVE EQUIPMENT GUIDELINES: The recommendation for protective equipment contained within this 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 ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.		
Abbreviations	ACGIHAmerican Conference of Governmental Industrial HygienistsCAS #Chemical Abstract Service number - used to uniquely identify chemical compoundsCNSCentral Nervous SystemEC No.EC No - European Community NumberEMSEmergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)GHSGlobally Harmonized SystemGTEPGGroup Text Emergency Procedure GuideIARCInternational Agency for Research on CancerLC50Lethal Concentration, 50% / Median Lethal ConcentrationLD50Lethal Dose, 50% / Median Lethal Dosemg/m³Milligrams per Cubic MetreOELOccupational Exposure LimitpHrelates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).ppmParts Per MillionSTELShort-Term Exposure LimitSTOT-RESpecific target organ toxicity (repeated exposure)STOT-SESpecific target organ toxicity (single exposure)SUSMPStandard for the Uniform Scheduling of Medicines and PoisonsSWASafe Work AustraliaTLVThreshold Limit ValueTWATime Weighted Average		
Report status	This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represen 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, importer or supplier. While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does		
Prepared by	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 SDS. Risk Management Technologies		
	5 Ventnor Äve, 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.		
	[End of SDS]		

