SAFETY DATA SHEET 2025

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name : ShieldPatch™ X2 Part A

Other means of Identification : Component A of a hand applied polymer repair kit

Relevant Identified Uses : Component of a Polyurethane System

Supplier's Information

Name : ShieldCrete® Australia

Company Name : ShieldCrete® Services Australia

Address : 48A Medcalf St., Warners Bay, NSW 2282

Contact Numbers : +61 8 6117 5821

Email : info@shieldcreteinternational.com.au

Website : www.shieldcreteinternational.com.au

Emergency Phone Numbers : Poisons Information Center – Australia (13 1126), New Zealand (03 4747000)

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazardous Nature: Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

GHS Classifications:

Acute oral toxicity Category 4
Acute dermal toxicity Category 4
Acute inhalation toxicity Category 4
Skin irritation Category 2
Eye irritation Category 2
Respiratory sensitization Category 1
Skin sensitization Category 1
Carcinogenicity Category 2
Specific target organ toxicity – repeated exposure Category 2

Signal Word:

Warning
Danger

Label Elements:



Hazard Statements:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H351	Suspected of causing cancer.
H371	May cause damage to organs.

Prevention Statement(s):

P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin 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.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.

Response Statement(s):

P101	If medical advice is needed, have product container or label at hand.
P301 + P312	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
P302 + P352	IF on skin- Wash with plenty of soap and water.
P304 + P340 + P341	IF inhaled- Call a POISON CENTRE or doctor/physician if you feel unwell. 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. Wash hands after handling.
P309 + P311	IF exposed or if you feel unwell- Call a POISON CENTRE or doctor/physician.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment for cleansing agent on this label.
P322	Specific treatment (see first aid instruction on this label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P332 + P313	If skin irritation occurs: 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
P338	Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311	IF experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.
P362	May cause harm to breast-fed children.
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.

SECTION 3: COMPOSITES / INFORMATION ON INGREDIENTS

Mixtures:

INGREDIENTS	WEIGHT %	CAS No.
α,-hydro-,omega,-hydroxypoly[methyl-1,2-ethanediyl], polymer with 1,1'-methylenebis[isocyanatobenzene]	25 - 60	39420-98-0
Reaction mass of 4,4'-methylenediphenyl diisocyanate & o-(p-isocyanatobenzyl) phenyl isocyanate	30 - 70	
Other ingredients determined not to be hazardous by the HSNO regulations	to 100	

SECTION 4: FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES

Inhalation: Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before re-use. Clean shoes thoroughly before re-use.

Note to physician: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:

Use an extinguishing agent suitable for the surrounding fire.

Special Fire Fighting Procedures:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Unusual Fire and Explosion Hazards:

In a fire or if heated, a pressure increase will occur, and the container may burst.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILLS AND DISPOSAL

Extinguishing Media:

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows.

Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Waste Disposal Method:

Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

SECTION 7: HANDLING AND STORAGE

SPECIAL PRECAUTIONS AND STORAGE DATA

Special Sensitivity (Heat, Light, Moisture):

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

STORAGE AND TRANSPORT

Storage Temperature (Min/Max):

Average Shelf Life:

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS

Ingredient	Threshold Limit Value
Diphenylmethane-4,4'-diisocyanate	Time Weighted Average (TLV-TWA): 0.02 mg/m³
Diphenylmethane-4,4'-diisocyanate	Short Term Exposure Limit (TLV-STEL): 0.07 mg/m³
	Threshold Limit Value – Ceiling (TLV-C): Not established

ENGINEERING CONTROLS

Ventilation:

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

PERSONAL PROTECTION

Skin and Eye Protection:

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Safety eyewear complying with an approved standard should be sued when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Respiratory Protection:

For outdoor use with adequate ventilation, an organic vapor cartridge respirator will suffice. Ensure cartridges are change regularly. For enclosed spaces or where there is poor ventilation, use a properly fitted, air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

FLAMMABILITY

Flammability Limits:

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance & Odor	Clear yellow liquid
Boiling Point	Not available
Vapor Pressure	Not Available
Specific Gravity	Not Available
Flash Point	210°C Closed Cup
% Volatile by Volume	Not Available
Flammability Limits	Not Available
Solubility in Water	Insoluble in water. Soluble in many organic solvents.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY DATA

Stability: Stable under normal storage conditions.

Polymerization: Will not occur.

Incompatibility (Materials to avoid): Moisture, amines and -OH group bearing compounds.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute

Skin and Eyes: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Ingestion: Irritating to mouth, throat and stomach.

Inhaled: Harmful if inhaled. May cause damage to organs following a single exposure if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Chronic **Human Effects of Over Exposure:** Acute toxicity.

SECTION 12: ECOLOGICAL INFORMATION

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL STATEMENT

Recycle wherever possible.

Bury residue in an authorized landfill.

Recycle containers if possible. If not possible, dispose of in an authorized landfill.

Containers may still present a chemical hazard/danger when empty.

If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, and then puncture containers, to prevent re-use, and bury at an authorized landfill.

Contact appropriate Waste Management Company for guidance and disposal options in your area.

Where possible retain label warnings and MSDS and observe all notices pertaining to the product.

SECTION 14: TRANSPORT INFORMATION

U.N. No:	Not applicable
Haz Chem Code:	Not applicable
Dangerous Goods Class:	Not classified dangerous goods
Proper Shipping Name:	Not Applicable
Packaging Group:	Not Applicable
Toxic Substances Schedule:	Not Applicable

SECTION 15: REGULATORY INFORMATION

HSNO Approval number:	HSR002646
HSNO Classification:	6.1D, 6.3A, 6.4A, 6.5A, 6.5B, 6.7B, 6.9B

SECTION 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 form of product, 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: form of product; 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 report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Definitions and Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number - used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	EC No - European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonized System
GTEPG	Group Text Emergency Procedure Guide
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration, 50% / Median Lethal Concentration
LD50	Lethal Dose, 50% / Median Lethal Dose
mg/m^3	Milligrams per Cubic Metre
OEL	Occupational Exposure Limit
pH	relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline).
ppm	Parts Per Million
STEL	Short-Term Exposure Limit
STOT-RE	Specific target organ toxicity (repeated exposure)
STOT-SE	Specific target organ toxicity (single exposure)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average