SAFETY DATA SHEET 2025

SECTION 1: IDENTIFICATION OF MATERIAL AND SUPPLIER

Product Name : ShieldPatch™ X2 Part B

Other means of Identification : Component B 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 non-hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

HSNO Classification: Not applicable

HSNO Approval Code: Not applicable

GHS Classifications:

Acute oral toxicity Category 4
Acute aquatic toxicity Category 3
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**

Label Elements:



Hazard Statements:

H302	Harmful if swallowed.
H402	Harmful to aquatic life.
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.
P273	Avoid release to the environment.
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.
Phosphates	10 - 25	13674-84-5
Other ingredients determined not to be hazardous by the HSNO regulations	to 100	

SECTION 4: FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES

General Advice: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Treat symptomatically. Get medical attention if symptoms occur.

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion: Induce vomiting immediately and call a physician. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Eye Contact: Flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Assure adequate flushing by separating the eyelids with fingers. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Wash skin with plenty of water. If irritation persists, call a physician.

In case of eye contact: Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Protection of First-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing. If potential for exposure exists refer to Section 8 for specific personal protective equipment. No action shall be taken involving any personal risk or without suitable training.

Note to Physician: Treat symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media:

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazards during Firefighting:

Do not allow run-off from firefighting to enter drains or water courses.

Hazardous Combustion Products:

Hydrogen chloride
Halogenated compounds
Oxides of phosphorus
Carbon oxides

Specific Extinguishing Methods:

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. No data is available on the product itself.

Special Protective Equipment for Firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILLS AND DISPOSAL

Procedure of Personal Precaution:

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

Methods of Cleaning up:

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Environmental Precautions:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 7: HANDLING AND STORAGE

SPECIAL PRECAUTIONS AND STORAGE DATA

Handling:

Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Hygiene Measures:

When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Special Sensitivity (Heat, Light, Moisture):

Store in a dry place. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat, sparks, and flames. Keep away from sources of ignition. Incompatible. Strong oxidizing agents. Keep container closed.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS

Threshold Limit Value – Time Weighted Average (TLV-TWA):	Not established.
Threshold Limit Value – Short Term Exposure Limit (TLV-STEL):	Not established.
Threshold Limit Value – Ceiling (TLV-C):	Not established.

ENGINEERING CONTROLS

Mechanical exhaust required. Safety shower and eye bath.

PERSONAL PROTECTION

Skin and Eye Protection:

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. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Refer to Australian/New Zealand Standard AS/NZS 2161.1: 2000 for guidance on selection and use of protective gloves. Eye wash bottle with pure water. Tightly fitting safety goggles. Refer to Australian/New Zealand Standard AS/NZS 1337:1992 for guidance on selection and use of protective eye wear.

Skin and Body Protection:

Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

Respiratory Protection:

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Refer to Australian/New Zealand Standard AS/NZS 1715 and AS/NZS 1716 for guidance on selection and use of respiratory devices. Filter type - combined particulates, acidic, inorganic gas/vapour and organic vapour type.

Hand:

Protective gloves.

Other Protection:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

FLAMMABILITY

Flammability Limits:
Not applicable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Appearance & Odor	Black viscous liquid
Odor	Weak odor
pH Value	No data available
SG	1.15
Flash Point	> 96.0°C
Solubility in Water	Soluble in water

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY DATA

Stability: Stable under normal temperatures and pressures.

Polymerization: Will not occur by itself.

Incompatibility (materials to avoid): Strong oxidizing agents.

Hazardous Decomposition Products: Halogenated compounds, hydrogen chloride, oxides of phosphorus, carbon monoxide & carbon dioxide.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Components	Phosphates
Acute Oral Toxicity	LD50 (Rat): 632 - 4,200 mg/kg Assessment: The component/mixture is moderately toxic after single ingestion.
Acute Inhalation Toxicity	LC50 (Rat): > 7.19 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity.
Acute Dermal Toxicity	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity.
Acute Toxicity (other routes of administration)	No data available
Skin Corrosion / Irritation	Species: Rabbit Assessment: No skin irritation Method: OECD Test Guideline 404 Result: No skin irritation
Serious Eye Damage / Eye Irritation	Species: Rabbit Result: No eye irritation Assessment: No eye irritation Method: OECD Test Guideline 405
Respiratory or Skin Sensitization	Exposure routes: Skin Species: Mouse Method: OECD Test Guideline 429 Result: Does not cause skin sensitization. Assessment: No data available

CHRONIC TOXICITY

Germ Cell Mutagenicity	Genotoxicity in vitro: No data available Genotoxicity in vivo: No data available
Germ Cell Mutagenicity - Assessment	Did not show mutagenic effects in animal experiments.
Carcinogenicity	No data available
Carcinogenicity - Assessment	No data available
Reproductive Toxicity	Effects on fertility: Species: Rat, male and female Application Route: Oral General Toxicity - Parent: Lowest observed adverse effect level: 99 mg/kg body weight Method: OECD Test Guideline 416 Result: Animal testing did not show any effects on fertility.
Effects on Foetal Development	Species: Rat, female Application Route: Oral General Toxicity Maternal: No-observed-effect level: 57 mg/kg body weight Method: OECD Test Guideline 414 Result: No teratogenic effects
Reproductive Toxicity - Assessment	No data available
STOT - Single Exposure	No data available
STOT - Repeated Exposure	No data available
Reproductive Dose Toxicity	Species: Rat, male LOAEL: 52 mg/kg/d Application Route: Ingestion Exposure time: 13 Weeks Number of exposures: 7 d Method: Subchronic toxicity
Reproductive Dose Toxicity -Assessment	No data available
Aspiration Toxicity	No data available

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY

Components	Phosphates
Toxicity to Fish: LC50 (Brachydanio rerio (zebrafish))	56.2 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water
LC50 (Pimephales promelas (fathead minnow))	51 mg/l Exposure time: 96 h Test Type: static test Test substance: Fresh water
Toxicity to Daphnia and other Aquatic Invertebrates	LC50 (Daphnia magna (Water flea)): 131 mg/l Exposure time: 48 h Test Type: static test Test substance: Fresh water
Toxicity to Algae/Aquatic Plants: ErC50 (Selenastrum capricornutum (green algae))	82 mg/l Exposure time: 72 h Test Type: static test Test substance: Fresh water Method: OECD Test Guideline 201
M-Factor (Acute Aquatic Toxicity)	No data available
Toxicity to Fish (Chronic Toxicity)	No data available
Toxicity to Daphnia and other Aquatic Invertebrates (Chronic Toxicity)	NOEC (Daphnia magna (Water flea)): 32 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water

	Method: OECD Test Guideline 202
M-Factor (Chronic Aquatic Toxicity)	No data available Toxicity to Microorganisms: EC50 (activated sludge): 784 mg/l Exposure time: 3 h Test Type: static test Test substance: Fresh water Method: ISO 8192
Toxicity to Soil Dwelling Organisms	No data available
Plant Toxicity	No data available
Sediment Toxicity	No data available
Toxicity to Terrestrial Organisms	No data available
Ecotoxicology Assessment Acute Aquatic Toxicity	No data available
Chronic Aquatic Toxicity	This product has no known ecotoxicological effects.
Toxicity Data on Soil	No data available
Other organisms relevant to the environment	No data available

BIOACCUMULATIVE POTENTIAL

Bioaccumulation	Species: Cyprinus carpio (Carp) Bioconcentration factor (BCF): 0.8 - 14 Exposure time: 42 d Test substance: Fresh water Method: flow-through test Bioconcentration factor (BCF): 6.58
Partition Coefficient: N-octanol / Water	log Pow: 2.68 (30 °C) pH: 7.1 Method: Partition coefficient

MOBILITY IN SOIL

Mobility	No data available
Distribution among Environmental Compartments	Koc: 576 Method: Directive 67/548/EEC, Annex V, C.19 Koc: 780 Method: OECD Test Guideline 106
Stability in Soil	No data available

OTHER ADVERSE EFFECTS

Environmental fate and pathways: No data available

Results of PBT and vPvB assessment: No data available

Endocrine disrupting potential: No data available

Adsorbed organic bound halogens (AOX): No data available

Hazardous to the Ozone Layer: Ozone-Depletion Potential: Not applicable

Additional Ecological Information - Product: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Global Warming Potential (GWP): No data available

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL STATEMENT

Waste from Residues: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways, or ditches with chemical or used container. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations. Dispose of contents/ container to an approved waste disposal plant.

Contaminated Packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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, 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

INTERNATIONAL REGULATIONS

IATA: Not regulated as dangerous goods

IMDG: Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
Not applicable for product as supplied.

NATIONAL REGULATIONS

Aust DG:	Not regulated as dangerous goods
U.N. No:	Not applicable
Haz Chem Code:	Not applicable
Dangerous Goods Class:	Not dangerous goods
Proper Shipping Name:	Not applicable
Packaging Group:	Not applicable
Toxic Substances Schedule:	Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture.

Standard for the Uniform Scheduling of Medicines and Poisons: No poison schedule number allocated.

HSNO Approval number:	Not applicable
HSNO Classification:	Not applicable

SECTION 16: OTHER INFORMATION

This document was created on Oct 2023.

Contact: **ShieldCrete® Australia** – PHONE 1800 364 776

IMPORTANT NOTE: Data quoted is typical for the product but does not constitute a specification and is based on the most accurate information available to PGL at the time of writing. All information contained herein is given in good faith but is subject to change without notice.