

SAFETY DATA SHEET 2023

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	: ShieldPoly Polekote Part A
Other means of Identification	: Hardener Component
Usage	: Insulation and Moulding Component
Manufacturer/Importer/Supplier/Distributor	
Information	: ShieldCrete® International
Company Name	: ShieldCrete® International Sdn Bhd
Address	: 66 Jalan Setiakasih 9 Bukit Damansara, Kuala Lumpur, Malaysia 50490
Contact Numbers	: +66 928 639 833 +63 966 465 5362
Email	: info@shieldcreteinternational.com
Website	: www.shieldcreteinternational.com

SECTION 2: HAZARDS IDENTIFICATION

Statement of Hazardous Nature:

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

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

HSNO Approval Number: HSR002646

HAZARD AND PRECAUTIONARY STATEMENTS

Hazard:	<ul style="list-style-type: none"> Harmful if inhaled. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Suspected of causing cancer through inhalation. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.
Prevention:	<ul style="list-style-type: none"> Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Keep out of reach of children. Read Safety Data Sheet before use. Avoid breathing dust, mist, vapors, spray, fume, gas. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves. Wear eye/face protection. Do not eat, drink or smoke when using this product. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace.
Response:	<ul style="list-style-type: none"> If medical advice is needed, have product container or label at hand. If exposed or concerned, get medical advice/attention. Specific treatment – see first aid instructions on this label.
If Inhaled:	<ul style="list-style-type: none"> If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a Poisons Centre or doctor/physician if you feel unwell or experience respiratory symptoms. Do NOT induce vomiting.

- If Swallowed:** Call a Poison center or doctor/physician.
Rinse mouth.
Do NOT induce vomiting.
- If on Skin:** Wash with plenty of soap and water.
Specific treatment (see first aid instruction on this label).
If skin irritation or rash occurs, get medical advice/attention.
Use a cleansing agent on skin.
Take off contaminated clothing and wash before re-use.
- If in Eyes:** Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do.
Continue rinsing.
If eye irritation persists, get medical advice/attention.
- In Case of Fire:** Use an extinguishing agent suitable for the surrounding fire.
- Storage:** Store locked up.
- Disposal:** 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 3: COMPOSITES / INFORMATION ON INGREDIENTS

INGREDIENTS	WEIGHT %	CAS No.
Isocyanic acid, polymethylenepolyphenylene ester	60-100	9016-87-9
4,4'-Methylenediethyl diisocyanate	30-60	101-68-8
Other ingredients determined not to be hazardous by the HSNO regulations	to 100	

SECTION 4: FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES

- 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 reuse. Clean shoes thoroughly before reuse.
- 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. It 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.

Note to Physician: 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.

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone New Zealand 0800 764 766.

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:

Due to reaction with water producing CO₂ gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

SPILLS AND DISPOSAL

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Steps to be taken in case material is released or spilled:

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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 noncombustible, absorbent material, eg 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 accordance with local regulations. 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): Store between 20°C – 30°C

Average Shelf Life:

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE STANDARDS

Threshold Limit Value – Time Weighted Average (TLV-TWA): 0.02 mg/m³

Threshold Limit Value – 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: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. 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.

Respiratory Protection: Use a properly fitted, air-purifying or 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 flammable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odor	Brown liquid, oil like odor
Boiling Point	200°C @ 5mm Hg
Vapor Pressure	Less than 0.00001 mmHg @ 25°C
Specific Gravity	1.2 gm/ml @ 25°C
Flash Point	230°C
% Volatile by Volume	Nil
Flammability Limits	Not flammable
Solubility in Water	Reacts with water

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY DATA

Stability:

The product is stable.

Polymerization:

May occur with incompatible reactants, especially strong bases, water, or temperatures over 160°C.

Incompatibility (Materials to avoid):

Water, acid, bases, alcohols, metal compounds and surface-active materials.

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. Causes damage to organs following a single exposure if inhaled.

CHRONIC

Human Effects of Over Exposure: Once sensitized a severe allergic reaction may occur when subsequently exposed to very low levels.

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, 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, 6.9A, 6.9B

SECTION 16: OTHER INFORMATION

This document was reviewed and revised on 23 May 2016.

DISCLAIMER: The information contained herein is, to the best of our knowledge and belief, accurate and current as of the date of the MSDS. However, since the conditions of handling and use are beyond our control; we make no guarantee of results and assume the liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Finding determination of solubility of chemical is the sole responsibility of the user. No representations or warranties, either expressed implied of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable federal and local laws and regulations.