

SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name:
PowerPatch® Cartridge Leak Repair Gel
(EPCT) SEALANT Part A

Product ID numbers: EPCT-KIT1, EPCT-KIT1G, EPCT-KITB6, EPCT-KITB6G;
EPCT-XXX (Where XXX is the package code.)

Product form Mixture

Product group Trade product

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Sealant/adhesive resin, Part A of 2-Part Sealant

List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

The Energy Network (Aust) Pty Ltd
2B/605 Zillmere Road
ZILLMERE, Queensland 4034, Australia
(07) 3212 8999
Email: sales@tengroup.com.au

1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 1-352-323-3500
Poisons Information Centre 131 126

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]. Classified as hazardous according to the criteria of New Zealand HSNO and Australian WHS Regulations.

Skin Irritation, Category 2 H315

Skin Sensitisation, Category 1 H317

Eye Irritation, Category 2 H319

Hazardous to the aquatic environment—Chronic Hazard, Category 2 H411

2.2 Label elements

Regulation (EC) No. 1272/2008 [CLP]

Contains: Bisphenol A-epichlorohydrin polymer



Pictograms:

GHS07

GHS09

Signal word (CLP): Warning

Hazard Statements (CLP):

H315

Causes skin irritation.

- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

- P261 Avoid breathing mist, vapours.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing and eye protection.
- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P305 + P351 + P338 If eye irritation persists: Get medical attention.
- P337 + P313 If eye irritation persists: Get medical attention.
- P362 + P364 Take off contaminated clothing.
- P391 Collect spillage.
- P501 Dispose of container in accordance with local regulations

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

Component	Product identifier	Weight %	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Bisphenol A-epichlorohydrin polymer	(CAS-No.) 25068-38-6 (EC-No.) 500-033-5 (EC Index-No.) 603-074-00-8	75 – 95	Eye Irrit. 2, H319 Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411

This product contains no other reportable hazardous components under OSHA 29 CFR 1910, 1200 Canada and European Regulation (EC) No 1272/2008. No additional ingredients require reporting based on applicable concentration and current supplier knowledge.

4. First Aid Measures

4.1 Description of first aid measures

- General** If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
- Eye Contact:** IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.
- Skin Contact:** IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.
- Inhalation (Breathing):** If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention.
- Ingestion (Swallowing):** No emergency medical treatment necessary

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms/effects** May cause an allergic skin reaction. Causes serious eye irritation. Causes skin irritation.

Symptoms/effects after inhalation	May cause respiratory irritation.
Symptoms/effects after skin contact	May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after eye contact	Causes serious eye irritation.
Symptoms/effects after ingestion	May cause gastrointestinal irritation.

4.3 Indication of immediate medical attention and special treatment needed.

No information available.

5. Firefighting Measures

5.1 Extinguishing media:

Water fog or fine spray, dry chemical carbon dioxide, or foam.

5.2 Special hazards arising from the substance or mixture

Dense smoke is emitted when burned without sufficient oxygen.

Hazardous decomposition and by-products:

CO₂, CO, phenolics. May contain other combustion products of varying composition which may be toxic or irritating.

5.3 Advice for firefighters

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Water fog may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture. Direct water stream may spread fire.

5.4 Hazchem code

None allocated.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

Isolate area. Use appropriate safety equipment.

6.2 Environmental precautions:

Avoid release to the environment. Prevent spill from entering drainage/sewer systems, waterways, basements or confined areas. Refer to Section 12 for more information.

6.3 Methods materials for containment and cleaning up:

Absorb spill with sand or absorbents. Residual resin may be removed using steam or hot soapy water. Collect as much of the spilled material as possible using non-sparking tools and transfer to a container. Seal the container. Residual material can be removed with solvent.

6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Avoid personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities

Keep containers cool, dry, and away from sources of ignition. Keep containers and cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

7.3 Specific end uses

See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits and recommendations:

Contains no components with established Occupational Exposure Limit (OEL) values.

8.2 Exposure controls

Respiratory protection:

Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced. Use a respirator or gas mask with cartridges for organic vapors (NIOSH or CE approved) with particulate pre-filter, P100 or AP2.

Protective gloves:

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include nitrile (included in most kits), neoprene, ethyl vinyl alcohol (EVAL), PVC. Use a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374). NOTE: The selection of specific glove for the application should account for other chemicals in the environment, physical requirements and potential user reaction to the glove material.

Eye protection:

Safety glasses recommended.

Other protective equipment:

Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

Personal protective equipment symbol(s):



9. Physical and Chemical

9.1 Information of basic physical and chemical properties

Appearance:	Dark gray or black gel.
Odor threshold:	Not available
pH:	Does not apply
Freezing point:	Not available
Boiling point:	Not available
Flash point:	>200 °C / >400 °F (PMCC)
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	< 0,001 mm Hg @ 20°C
Vapor density (Air = 1):	>1
Specific gravity (H₂O = 1):	1,25 @ 25°C
Solubility in water:	Not available
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available

Viscosity: Not available

9.2 Other Information

Volatiles (Weight %): 0%

VOC Content: 0 g/l

10. Stability and Reactivity

10.1 Reactivity:

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability:

Stable

10.3 Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions.

10.4 Conditions to avoid:

Avoid high temperatures above 300 °C (572 °F). Decomposition can occur above 350 °C (662 °F). Generation of gas during decomposition can cause pressure to build in closed systems.

10.5 Incompatible materials :

Strong acids or bases (especially primary or secondary aliphatic amines), strong oxidizing agents.

10.6 Hazardous decomposition products:

CO₂, CO, phenolics and other organic substances may be formed during combustion or elevated temperature degradation.

11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity (oral)	Not classified
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation)	Not classified

Acute toxicity

Eye contact:

Direct eye contact with material or vapors may cause eye irritation.

Skin contact:

This product has moderate skin irritation potential. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Prolonged or repeated skin exposure may cause skin sensitization.

Irritation and Sensitization Potential:

May cause allergic skin reaction.

Inhalation (Breathing):

Low vapor pressure makes this route of exposure unlikely.

Ingestion:

Ingestion may cause irritation of the gastrointestinal tract.

Toxicity to Animals:

Bisphenol A Diglycidyl Ether: LD₅₀ (oral rat) 11400 mg/kg

Aspiration Hazard:

No aspiration hazard expected.

Chronic Exposure:

Reproductive Toxicity: Not available.

Mutagenicity: Resins based on diglycidyl ether of bisphenol A have proved to be inactive when tested by in-vivo mutagenicity assays. These resins have shown activity in in-vitro microbial mutagenicity screening and have produced chromosomal

	aberrations in cultured rat-liver cells. The significance of these tests to humans is unknown.
Teratogenicity:	Not available.
Specific Target Organ Toxicity (STOT)	Not available.
Toxicologically Synergistic Products:	Not available.
Carcinogenic Status:	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

12. Ecological Information

12.1 Toxicity:

Aquatic Toxicity:	May be toxic to aquatic organisms.
Bisphenol A Diglycidyl Ether:	LC ₅₀ (96 hr.): 2 mg/l Oncorhynchus mykiss (rainbow trout)
Bisphenol A Diglycidyl Ether:	Semi-static test
Bisphenol A Diglycidyl Ether:	EC ₅₀ (48 hr.): 1.8 mg/l Daphnia magna (invertebrate)
Bisphenol A Diglycidyl Ether:	Static test
Bisphenol A Diglycidyl Ether:	ErC ₅₀ (72 hr.): 11 mg/l Fresh water algae (aquatic plants)
Bisphenol A Diglycidyl Ether:	Static test
Bisphenol A Diglycidyl Ether:	Chronic Toxicity Value:
Bisphenol A Diglycidyl Ether:	Daphnia magna (invertebrate), 21 d, number of offspring, NOEC: 0.3 mg/l
Bisphenol A Diglycidyl Ether:	Semi-static test

12.2 Persistence and degradability:

	Based on stringent OECD test guidelines, this material cannot be considered readily biodegradable. Biodegradability depends on environmental conditions.
Bisphenol A Diglycidyl Ether:	OECD Biodegradation Test 302B
Bisphenol A Diglycidyl Ether:	12% Biodegradation, 28 d exposure
Bisphenol A Diglycidyl Ether:	Theoretical Oxygen Demand
Bisphenol A Diglycidyl Ether:	2.35 mg/mg

12.3 Bioaccumulation potential:

Bioconcentration potential is moderate.

12.4 Mobility in soil:

Potential for mobility in soil is low..

12.5 Results of PBT and vPvB Assessment:

This product is not, nor does it contain a substance that is a PBT or vPvB.

12.6 Other adverse effects:

None known.

13. Disposal Considerations

Waste treatment methods:	Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without a permit.
Product/Packaging disposal recommendations:	Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

14. Transport Information

DOT:	Not Regulated
UN Number:	3082
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, N.O.S. (Bisphenol A)
Class and Subsidiary Risk:	9
Packing Group:	III
ICAO/IATA-DGR:	Not Regulated (See Special Provision A197)
IMDG:	Not Regulated (See IMDG Code 2.10.2.7)
ADR/RID:	Not Applicable

Other information

For surface shipments within the United States: Not regulated.

Hazchem code:

None allocated

15. Regulatory Information

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

15.1.1. NZ-Regulations

All chemical substances in this product are listed in the New Zealand Inventory of Chemicals (NZIoC) or are exempt

This substance is to be managed using the conditions specified in an applicable Group Standard

HSR Number

HSR002544 Construction Products Group Standard

15.1.2. EU-regulations

- Contains no REACH substances with Annex XVII restrictions
- Contains no substance on the REACH candidate list
- Contains no REACH Annex XIV substances
- Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.
- Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.3. Australian-regulations

Classified as a Schedule 5 (S5) Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Safework Australia criteria is based on the Globally Harmonized System (GHS) of Classification and Labelling of Chemicals.

All components are listed on the AICS.

Product is classified as hazardous according to criteria of NOHSC Australia.

15.1.4. International-regulations

All chemical substances in this product are listed as "Active" in the US EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule"). as of Feb. 2019 or are otherwise exempt.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

16. Other Information

Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration

CLP = Classification, Labeling and Packaging Regulation

STOT = Specific Target Organ Toxicity

LD₅₀ = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

Mixture classification according to Regulation (EC) No 1272/2008:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Classification Procedure

Calculation method.

Calculation method.

Calculation method.

Product Name: PowerPatch® Cartridge Leak Repair Gel (Part A) Type EPCT

Revision Date: April 26, 2022

H411 Hazardous to the aquatic environment—Chronic Hazard, Cat 2

Calculation method.

Revision Date: April 25, 2022

Revision Number: 2

Supersedes: April 8, 2021

Other: New Zealand, Australia

Indication of Changes: Created in accordance with the provisions of Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 including New Zealand and Australia specific information. (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.