

MATERIAL SAFETY DATA SHEET
PA and PB Series Aerogel Capacitor (Electrochemical Double Layer Capacitor)
PowerStor Corporation

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

PA and PB Series PowerStor Aerogel Capacitor with active balancing circuit

MANUFACTURER

PowerStor Corporation
6918 Sierra Court
Dublin, CA, 94568
Phone: (925) 828-6700

EMERGENCY TELEPHONE NUMBERS

(800) 424-9300 (U.S. / Canada)
1 (703) 527-3887 (International)

2. COMPOSITION INFORMATION

HAZARDOUS INGREDIENTS	%	CAS NUMBER
Propylene Carbonate	proprietary	108-32-7
Quaternary Ammonium Salt	proprietary	NA

3. HAZARDS IDENTIFICATION

NFPA/HMIS RATING (0 = minimal, 1 = slight, 2 = moderate, 3 = serious, 4 = severe)

propylene carbonate: Health = 1, Fire = 1, Reactivity = 0.
ammonium salt: Health = 1, Fire = 1, Reactivity = 0.

GENERAL SAFETY CONSIDERATIONS

- Cells may vent/rupture if overcharged, reverse charged, incinerated or heated above 150 °C.
- Do not crush, mutilate, nail penetrate or disassemble.
- High case temperature may result from abuse of the cell.

PRIMARY ROUTES OF ENTRY

Skin contact: NO
Skin adsorption: NO
Eye contact: NO
Inhalation: NO
Ingestion: NO

SYMPTOMS OF EXPOSURE

Skin contact: No effect under routine handling and use.
Skin absorption: NA

Eye contact: No effect under routine handling and use.
Inhalation: NA

REPORTED AS CARCINOGEN

NA

4. FIRST AID MEASURES

INHALATION

Not a health hazard.

EYE CONTACT

Not a health hazard.

SKIN CONTACT

Not a health hazard.

INGESTION

If swallowed, obtain medical attention immediately.

If the outer casing of the cell is damaged, and exposure to internal materials within the cell occurs, the following actions are recommended.

INHALATION

Not a health hazard.

EYE CONTACT

Rinse eyes with water for 15 minutes and seek medical attention.

SKIN CONTACT

Wash area thoroughly with soap and water.

INGESTION

Drink milk/water and induce vomiting; seek medical attention.

5. FIRE FIGHTING MEASURES

GENERAL HAZARD

Internal organic material will burn if the cell is incinerated. Combustion products include, but are not limited to, carbon monoxide and carbon dioxide.

EXTINGUISHING MEDIA

Use fire extinguisher type A,B, C or D.

SPECIAL FIREFIGHTING INSTRUCTIONS

If possible, remove cell(s) from fire fighting area. If heated above 150°C, cell(s) may rupture/vent.

FIREFIGHTING EQUIPMENT

Use NIOSH/OSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

6. ACCIDENTAL RELEASE MEASURES

ON LAND

Place material into suitable containers and call local fire/police department.

IN WATER

If possible, remove from water and call local fire/police department.

7. HANDLING AND STORAGE

HANDLING

No special protective clothing required for handling individual cells.

STORAGE

Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Keep away from heat and open flame. Store in a cool, dry place.

PERSONAL PROTECTION

Respirator: Not required during normal operations. SCBA required in the event of a fire.

Eye/face protection: Not required beyond safety practices of employer.

Gloves: Not required for handling of cells.

Foot protection: Steel-toed shoes recommended for large container handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

State:	Solid
Odor:	NA
pH:	NA
Vapor pressure:	NA
Vapor density:	NA
Boiling point:	NA
Solubility in water:	Insoluble
Specific gravity:	~2.5

10. STABILITY AND REACTIVITY

REACTIVITY

None

INCOMPATIBILITIES

None during normal operation. Avoid exposure to heat, open flame, and corrosives.

HAZARDOUS DECOMPOSITION PRODUCTS

None during normal conditions.

CONDITIONS TO AVOID

Avoid exposure to heat and open flame. Do not puncture, crush or incinerate.

11. TOXICOLOGICAL INFORMATION

This product is not toxic during routine handling and use.

Sensitization: NO
Teratogenicity: NO
Reproductive Toxicity: NO
Acute Toxicity: NO

If cells are opened through misuse or damage, discard immediately.

12. ECOLOGICAL INFORMATION

Under normal conditions, cells pose no risk to persons or the surrounding environment.

13. DISPOSAL CONSIDERATIONS

California Regulated Debris (if disposed of as waste)
RCRA Waste Code: Nonregulated

14. TRANSPORT INFORMATION

DOT Hazard Class: Nonregulated

15. REGULATORY INFORMATION

OSHA hazard communication standard (29 CFR §1910.1200)

Hazardous Non-hazardous

16. OTHER INFORMATION

NA: Not Applicable
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