Safety data sheet for chemical products (SDS)

1.PRODUCT AND COMPANY IDENTIFICATION

- Product name: HEV Lithium Ion Battery Cell
- Product code: Prismatic type cell
  UF121265B

- Company name: Automotive & Industrial Systems Company of Panasonic Group
- Address: 194-4, Tokonabe-cho, Kasai-shi, Hyogo, Japan
- Telephone number: +81-50-3758-2219
- Telefax number: +81-790-43-2096
- Emergency telephone number: [All day] +81-790-43-2109

2.COMPOSITION / INFORMATION ON INGREDIENTS

- Substance or preparation: Preparation
- Information about the chemical nature of product:

Common chemical name / General name	CAS number	NIOSH / RTECS number	Concentration / Concentration range
Lithium Metal Oxide	None listed	None listed	20-30%
Aluminum	7429-90-5	BD0330000	15-25%
Graphite	7782-42-5	FF5250100	10-20%
Copper	7440-50-8	GL5325000	10-20%
Organic electrolyte	None listed	None listed	15-25%

3.HAZARDS IDENTIFICATION

For the cell, chemical materials are stored in a hermetically sealed Aluminum case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials' leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the cell case will be breached at the extreme, hazardous materials may be released.

Moreover, if heated strongly by the surrounding fire, acrid gas may be emitted

- Most important hazard and effects
  Human health effects:
  Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.
  Skin contact: The steam of the electrolyte stimulates a skin. The electrolyte skin contact causes a sore and the stimulation on the skin.
  Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and the stimulation on the eye. Especially, substance that causes a strong inflammation of the eyes is contained.
  Environmental effects: Since a cell remains in the environment, do not throw out it into the environment.

- Specific hazards:
  If the electrolyte contacts with water, it will generate detrimental hydrogen fluoride.
  Since the leaked electrolyte is flammable liquid, do not bring close to fire.

4.FIRST-AID MEASURES

Internal cell materials of an opened battery cell

- Inhalation: Make the victim blow his/her nose, gargle. Seek medical attention if necessary.
- Skin contact: Remove contaminated clothes and shoes immediately. Wash extraneous matter or contact region with soap and plenty of water immediately.
- Eye contact: Do not rub one’s eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.