

Product Information Sheet

Panasonic Batteries

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Product: Vanadium Pentoxide (VL Type) Lithium Batteries
Applicable models/sizes: All VL type

Revision: January 1, 2018

The batteries referenced herein are exempt articles and are not subject to the OSHA Hazard Communication Standard requirement. This sheet is provided as a service to our customers.

SDS

Safety Data Sheets (SDS) are a sub-requirement of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, 29 CFR Subpart 1910.1200. This Hazard Communication Standard does not apply to various subcategories including anything defined by OSHA as an "article". OSHA has defined "article" as a manufactured item other than a fluid or particle; (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g. minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

Because all of our batteries are defined as "articles", they are exempt from the requirements of the Hazard Communication Standard; hence a SDS is not required.

DISPOSAL

Panasonic has determined that our Vanadium Pentoxide battery (VL type) is considered a hazardous waste when disposed of in the states of California, Rhode Island and Washington.

<u>State</u>	<u>Classification</u>	<u>Monthly weight needed to qualify</u>
California	Non-RCRA Hazardous	No minimum ⁽¹⁾
Rhode Island	Rhode Island Waste (Type 1C)	No minimum ⁽¹⁾
Washington	Dangerous Waste (Category D)	220 Pounds ⁽²⁾

Notes:

- (1) Any amount of VL type batteries in California or Rhode Island must be disposed of in accordance with the hazardous waste laws of each state. **These requirements do not apply to individual consumers or to end products that contain VL batteries.**
- (2) If you generate less than 220 ponds of these batteries in any one calendar month, you are exempt from the State of Washington hazardous waste regulations.

In all cases, it remains the responsibility of the party generating the waste to properly dispose of your waste in accordance with all laws and regulations. Panasonic recommends that large quantities of this battery be disposed of in a fully permitted hazardous landfill. Check your local area for recycling options.

TRANSPORTATION

All Panasonic lithium batteries are not subject to the requirements of the Department of Transportation (DOT) Subchapter C, Hazardous Materials Regulations if shipped in compliance with 49 CFR 173.185 (c). These batteries are lithium metal because they contain lithium in alloy. .

Effective January 1, 2018 all Panasonic lithium batteries can be shipped by air in accordance with International Civil Aviation Organization (ICAO), 2017-2018 edition, Section II or Section 1B, International Air Transport Association (IATA) 59th edition, Section II or Section 1B Packing Instructions (PI) 968 (Batteries), PI 969 (Batteries, packed with equipment) and PI 970 (Batteries, contained in equipment) as appropriate

Notice: The information and recommendations set forth are made in good faith and are believed to be accurate at the date of preparation. Panasonic Industrial Company makes no warranty expressed or implied.

All Panasonic lithium batteries are regulated by the International Maritime Organization (IMO), 2016 edition, 38th amendment, under Special Provisions 188 and 230.

All Panasonic lithium cells are tested and comply with the UN Model Regulations, Manual of Test and Criteria, Part III, subsection 38.3.

Check with your air carrier before shipping. Many air carriers have additional requirements.

First Aid

If you get electrolyte in your eyes, flush with water for 15 minutes without rubbing and immediately contact a physician. If you get electrolyte on your skin wash the area immediately with soap and water. If irritation continues, contact a physician. If a battery is ingested, call the National Capital Poison Center (NCPC) at 202-625-333 (Collect) or your local poison center immediately. Lithium coin batteries lodged in the esophagus should be removed immediately. Leakage, chemical burns and perforation can occur within hours of ingestion.

General Recommendations

CAUTION: Risk of fire, explosion and burns. Do not recharge, crush, heat above 212°F (100°C) or incinerate.

Fire Safety

In case of fire, you can use a Class "D" fire extinguisher or other smothering agent such as Lith-X, copper powder or dry sand. If you use water, use enough to smother the fire. Cooling the exterior of the batteries will help prevent rupturing. Fire fighters should use self-contained breathing apparatus. Detailed information on fighting a lithium metal battery fire can be found in Guide 138 (Substances – Water – Reactive) of the US DOT Emergency Response Guide.