

JUL-16-1995 16:27

PANASONIC

9108526194
4043386407 P.O.

Panasonic

Panasonic Industrial Company
Battery Sales Group/OEM

Division of Matsushita Electric
Corporation of America

1854 Shackleford Ct.
Suite 1-240
Norcross, GA 30093
404-717-6788

"D" Battery

Dear Customer:

Material Safety Data Sheets (MSDS) are a subrequirement of the Occupational Safety and Health Administration (OSHA) Hazard Communications 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: (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 does not release, or otherwise result in exposure to, a hazardous chemical, under normal conditions of use. OSHA then goes on to define "hazardous chemical" and "exposure".

Because all of our batteries are defined as "articles", they are exempt from the requirements of Hazard Communication Standard, 29 CFR 1910.1200, hence a MSDS is not required.

The following components are found in a Panasonic Lead acid battery:

Sulfuric Acid - Electrolyte	H2 SO4	10-20%
Lead - Negative Electrode	Pb	30-60%
Lead Dioxide - Positive Electrode	PbO2	5-25%
Lead Sulfate - Positive Electrode	PbSO4	1-25%

Concentrations of components in lead acid batteries depend on the state of charge or discharge.

The hazardous waste code for lead acid batteries is D008.

If one of batteries should leak electrolyte, wash the area with copious amounts of water.

Sincerely,

PANASONIC BATTERY SALES GROUP
PANASONIC INDUSTRIAL COMPANY



8. HEALTH HAZARD DATA

Primary Routes of Entry: Inhalation, skin and possible ingestion

Health Hazards: May cause skin or eye irritation,
nervous symptoms, dizziness, unconsciousness
or even death

Carcinogenity: None

SIGNS AND SYMPTOMS OF EXPOSURE

1. ACUTE OVEREXPOSURE:

Eyes: redness, tearing, blurred vision

Skin: prolonged or repeated contact may
cause redness, irritation, defatting
or dermatitis

Inhalation: overexposure to vapors can cause
dizziness, headaches, fatigue and nausea

2. CHRONIC OVEREXPOSURE:

Skin & Eyes: redness, itching & burning sensation

Inhalation: dizziness, headaches, fatigue and nausea

EMERGENCY AND FIRST AID PROCEEDURES:

(If symptoms persist, call a physician)

1. INHALATION: Remove to fresh air.

2. EYES: Flush with tepid water for 15 minutes
holding eyelids apart.

3. SKIN: Wash with soap and water.

4. INGESTION: DO NOT induce vomiting. Call a physician.

9. SPILL OR LEAK PROCEEDURES

HANDLING & STORAGE PRECAUTIONS: Store in a cool dry area. Do not
store in direct sunlight. Do not puncture or incinerate can.

SPILL RESPONSE: Avoid breathing vapor. Ventilate area.

Turn off ignition sources. Remove with with inert
absorbent material for disposal.

WASTE DISPOSAL: All used and unused Product should be disposed
of in conformance with local, state and federal regulations.

OTHER PRECAUTIONS: Misuse by deliberately concentrating and
inhaling vapors can be harmful or fatal.

10. SPECIAL PRECAUTIONS AND USE DIRECTIONS:

Use NIOSH-MSHA approved organic vapor respirator if ventilation
is inadequate. Do not spray product near high heat, open flames
or other ignition sources. Do not store above 120 F.
Do not puncture or incinerate can.

DISCLOSURE: The information on this data sheet represents our
current data and is believed to be accurate but is not warranted
whether originating with the company or not. Any use of this
product which is not in conformance with this data sheet or
which involves the use of this product in combination with any
other product or any other process is the responsibility of the user.