

PANASONIC INDUSTRIAL DIV OF MA -- CR 2477, MANGANESE DIOXIDE (CR TYPE) LITHIUM

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MSDS Safety Information
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FSC: 6135
NIIN: 01-481-7127
MSDS Date: 06/02/1999
MSDS Num: CLMSV
Product ID: CR 2477, MANGANESE DIOXIDE (CR TYPE) LITHIUM BATTERIES
MFN: 01
Article: Y
Responsible Party
Cage: 0J4G8
Name: PANASONIC INDUSTRIAL CO DIV OF
MATSUSHITA ELECT CORP OF AMER
Address: TWO PANASONIC WAY
City: SECAUCUS NJ 07094
Info Phone Number: 877-726-2228
Emergency Phone Number: 877-726-2228
Review Ind: Y
Published: Y

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Contractor Summary
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Cage: 0J4G8
Name: PANASONIC INDUSTRIAL CO DIV OF MATSUSHITA ELECT CORP OF AMER
Address: TWO PANASONIC WAY
City: SECAUCUS NJ 07094
Phone: 877-726-2228

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Item Description Information
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Item Manager: S9G
Item Name: BATTERY, NONRECHARGEABLE
Unit of Issue: EA

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Regulated Components
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Regulated Component Name: LITHIUM (NEGATIVE ELECTRODE)
CAS: 7439-93-2
Regulated Component Name: PROPLENE CARBONATE-SOLVENT (ELECTROLYTE)
Regulated Component Name: 1, 2 DIMETHOXYETHANE-SOLVENT

(ELECTROLYTE)

Regulated Component Name: MANGANESE DIOXIDE (POSITIVE ELECTRODE)

CAS: 1313-13-9

Regulated Component Name: LITHIUM TRIFLATE-SALT (ELECTROLYTE)

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Health Hazards Data
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LD50 LC50 Mixture: NOT PROVIDED BY MFR

Effects of Exposure: NOT PROVIDED. THIS BATTERY IS AN EXEMPT ARTICLE AND NOT SUBJECT TO THE OSHA HAZARD COMMUNICATION STANDARD REQUIREMENT, HENCE A MSDS IS NOT REQUIRED.

THIS MSDS IS PROVIDED AS A SERVICE.

Explanation Of Carcinogenicity: NOT PROVIDED BY MFR

Signs And Symptoms Of Overexposure: NOT PROVIDED BY MFR.

Medical Cond Aggravated By Exposure: NOT PROVIDED BY MFR.

First Aid: NOT PROVIDED BY MFR.

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Handling and Disposal
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Spill Release Procedures: NOT PROVIDED BY MFR.

Neutralizing Agent: NOT PROVIDED BY MFR.

Waste Disposal Methods: LITHIUM BATTERIES CAN BE CONSIDERED A REACTIVE

HAZARDOUS WASTE IF THERE IS A SIGNIFICANT AMOUNT OF UNREACTED, OR UNCONSUMED LITHIUM REMAINING IN THE SPENT BATTERY. KEY TO DISPOSING AS A NON-HAZARDOUS WASTE IS BE CERTAIN IT IS FULLY DISCHARGED. ONCE DISCHARGED IT CAN BE DISPOSED OF AS NON-HAZARDOUS WASTE. FULLY CHARGED OR (CONTD. SEE "HANDLING")

Handling And Storage Precautions: (CONTD. FROM " WASTE DISPOSAL") PARTIALLY DISCHARGED LITHIUM BATTERY CAN BE DISPOSED OF AS A HAZARDOUS WASTE AFTER THEY A

RE FIRST NEUTRALIZED THROUGH AN APPROVED SECONDARY TREATMENT. THE NEED FOR A S ECONDARY TREATMENT PRIOR TO DISPOSAL IS A REQUIREMENT OF U.S. LAND (CONTD. SEE "OTHER PRECAUTIONS")

Other Precautions: (CONTD. FROM "HANDLING") BAN RESTRICTIONS OF THE HAZARDOUS AND SOLID WASTE AMENDMENTS OF 1984. A SECONDARY TREATMENT CENTER CAN ONLY RECEIVE THESE BATTERIES AS MANIFESTED HAZARDOUS WASTE. THE WASTE CODE FOR CHARGED LITHIUM BATTERIES IS D003, REACTIVE. IN EITHER CASE, BUTTON CELL BATTERIES

(CONTD. SEE "ECOLOGICAL")

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Fire and Explosion Hazard Information
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Flash Point Text: NOT PROVIDED BY

Lower Limits: NOT PROVIDED

Upper Limits: NOT PROVIDED

Extinguishing Media: NOT PROVIDED BY MFR

Fire Fighting Procedures: NOT PROVIDED BY MFR

Unusual Fire/Explosion Hazard: NOT PROVIDED BY MFR

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Control Measures
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Respiratory Protection: NOT PROVIDED BY MFR
Ventilation: NOT PROVIDED BY MFR
Protective Gloves: NOT PROVIDED BY MFR
Eye Protection: NOT PROVIDED BY MFR
Other Protective Equipment: NOT PROVIDED BY MFR
Work Hygienic Practices: NOT PROVIDED BY MFR
Supplemental Safety and Health: NOT PROVIDED BY MFR
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Physical/Chemical Properties
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HCC: Z6
B.P. Text: NOT PROVIDED BY MFR
M.P/F.P Text: NOT PROVIDED BY MFR
Decomp Text: NOT PROVIDED BY MFR
Vapor Pres: NOT PROVIDED BY MFR
Vapor Density: NOT PROVIDED
Spec Gravity: NOT PROVIDED BY MFR
PH: NOT PROVIDED
Viscosity: NOT PROVIDED BY MFR
Evaporation Rate & Reference: NOT PROVIDED BY MFR
Solubility in Water: NOT PROVIDED BY MFR
Appearance and Odor: NOT PROVIDED BY MFR
Percent Volatiles by Volume: NOT PROVIDED
Corrosion Rate: NOT PROVIDED BY MFR
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Reactivity
Data
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Stability Condition To Avoid: NOT PROVIDED BY MFR
Materials To Avoid: NOT PROVIDED BY MFR
Hazardous Decomposition Products: NOT PROVIDED BY MFR
Conditions To Avoid Polymerization: NOT PROVIDED BY MFR
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Toxicological Information
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Ecological Information
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Ecological: (CONTD. FROM "OTHER PRECAUTIONS") SO LITTLE LITHIUM THAT THEY NEVER QUALIFY AS A REACTIVE HAZARDOUS WASTE. THESE BATTERIES ARE SAFE FOR DISPOSAL IN THE NORMAL MUNICIPAL WASTE STREAM. DISPOSAL OF LARGE QUANTITIES OF UNDISCHARGED LITHIUM BATTERIES SHOULD BE PERFORMED BY PERMITTED, PROFESSIONAL DISPOSAL FIRMS KNOWLEDGEABLE IN FEDERAL, STATE, AND LOCAL HAZARDOUS MATERIALS AND HAZARDOUS WASTE TRANSPORT ATION AND DISPOSAL REQUIREMENTS. AS AL WAYS,
HOUSEHOLDS ARE EXEMPT FROM THE RCRA HAZARDOUS WASTE GUIDELINES.
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MSDS Transport Information
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Transport Information: D.O.T.: ALL PANOSONIC LITHIUM BATTERIES ARE NOT REGULATED BY DOT BASED ON EXCEPTIONS UNDER 173.185(B). ONLY EXCEPTION TO THIS IS PANASONIC'S BR-C BATTERY THAT CONTAINS 1.3 GRAMS OF LITHIUM PER CELL AN D IS NOT SUBJECT TO THE REGULATIONS BECAUSE IT MEETS THE REQUIREMENTS OF 173.185 (C). (I.E., PASSES THE UN T1 TO T6 TESTS). IATA AND ICAO: CONSIDERED NON-DANGEROUS SINCE THEY MEET ALL REQUIREMENTS OF SPECIAL PROVISION "A45". IMDG: CONSIDERED NON-DANGEROUS SINCE THEY MEET REQUIREMENTS OF UN 3090. THE ONLY REQUIREMENTS FOR SHIPPING THESE BATTERIES, IN ALL MODES OF TRANSPORTATION, ARE THAT THEY MUST BE (CONTD. SEE "SARA TITLE I I I")
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Regulatory Information
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Sara Title III Information: (CONTD. FROM "TRANSPORTATION") SEPARATED TO PREVENT SHORT-CIRCUITS AND TO PREVENT MOVEMENT THAT COULD LEAD TO SHORT-CIRCUITS. THEY MUST ALSO BE PACKED IN STRONG PACKAGING THAT CAN WITHSTAND THE RIGOR S NORMAL TO TRANSPORTATION.
Federal Regulatory Information: LITHIUM BATTERIES ARE NEITHER SPECIFICALLY LISTED NOR EXEMPTED FROM THE FEDERAL ENVIRONMENTAL PROTECTION AGENCY (EPA) HAZARDOUS WASTE REGULATIONS AS PROMULGATED BY THE RESOURC E CONSERVATION AND RECOVER Y ACT (RCRA). THE ONLY METAL OF POSSIBLE CONCERN IN A LITHIUM BATTERY IS LITHIUM THAT IS NOT A LISTED OR CHARACTERISTIC TOXIC HAZARDOUS WASTE.
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Other Information
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Transportation Information
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Responsible Party Cage: 0J4G8
Trans ID NO: 159121
Produ

ct ID: CR 2477, MANGANESE DIOXIDE (CR TYPE) LITHIUM BATTERIES

MSDS Prepared Date: 06/02/1999

Review Date: 10/03/2001

MFN: 1

Net Unit Weight: EACH

Multiple KIT Number: 0

Unit Of Issue: EA

Additional Data: ONLY REQUIREMENT FOR SHIPPING, IN ALLTRANSPORTATION MODES, IS BATTERIES MUST BE SEPARATED TO PREVENT SHORT-CIRCUITS AND TO PREVENT MOVEMENT THAT COULD LEAD TO SHORT-CIRCUITS. MUST BE PACKED IN STRONG PACKAGING THAT CAN WITHSTAND RIGORS NORMAL TO TRANSPORTATION.

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Detail DOT Information

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DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail IMO Information

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IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

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Detail IATA Informat

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IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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Detail AFI Information

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AFI PSN Code: ZZZ

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

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HAZCOM Label

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Product ID: CR 2477, MANGANESE DIOXIDE (CR TYPE) LITHIUM BATTERIES

Cage: 0J4G8

Company Name: PANASONIC INDUSTRIAL CO DIV OF MATSUSHITA ELECT CORP OF AMER

Street: TWO PANASONIC WAY

City: SECAUCUS NJ

Zipcode: 07094

Health Emergency Phone: 877-726-2228

Label Required IND: Y

Date Of Label Review: 10/03/2001

Status Code: A

Label Date: 10/03/2001

Origination Code: F

Signal Word: NONE

Health Hazard: None

Contact Hazard: None

Fire Hazard: None

Reactivity Hazard: None

Hazard And Precautions: THIS BATT

ERY IS AN EXEMPT ARTICLE AND NOT SUBJECT TO

THE OSHA HAZARD COMMUNICATION STANDARD REQUIREMENT, HENCE A MSDS IS NOT REQUIRED. THIS MSDS IS PROVIDED AS A SERVICE. UNDER NORMAL CONDITIONS OF USE THIS BATTERY 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.

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Disclaimer (provided with this information by the compiling agencies): This

information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this ins

truction who is not a military or civilian employee of the

United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation regardless of similarity to a corresponding Department of Defense or other government situation.