

Material Safety Data Sheet

MSDS-001

U.S. Department of Labor

May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

IDENTITY (As Used on Label and List)

Note: Blank spaces are not permitted. If any item is not applicable, or no
 information is available, the space must be marked to indicate that.

LITHIUM - ION CELLS AND BATTERIES

Section I

Manufacturer's Name Yardney Technical Products, Inc.	Emergency Telephone Number (800) 255-3924
Address (Number, Street, City, State, and Zip Code) 82 Mechanic Street	Telephone Number for Information 860-599-1100
Pawcatuck, CT 06379	Date Prepared 5/29/2009
	Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Contains one or more of the following:				
Carbonic Acid, Ethyl Methyl Ester		RTECS#	NA	
Diethyl Carbonate		RTECS#	FF9800000	
Dimethyl Carbonate		RTECS#	FG0450000	
Carbonic Acid, Cyclic Ethylene Ester		RTECS#	FF9550000	
Phosphate (1-), Hexafluoro-, Lithium; LiPF ₆		RTECS#	NA	
Lithium Tetrafluoroborate; LiBF ₄				
Lithiated Nickel Oxide Based Components (Suspected Carcinogens)				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H₂O = 1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water

N/A

Appearance and Odor

Hermetically sealed prismatic cell. No odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N/A	Flammable Limits	N/A	LEL	N/A	UEL	N/A
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Extinguishing MediaDry chemical, CO₂, water spray or alcohol resistant foam.**Special Fire Fighting Procedures**

Use self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

When product is burned, it may emit compounds containing fluorine..

Explosion could result in cases of extreme overcharge.

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

<i>Stability</i>	<i>Unstable</i>		<i>Conditions to Avoid</i> DO NOT PUNCTURE OR SHORT CIRCUIT, DO NOT MECHANICALLY
	<i>Stable</i>	X	ABUSE; DO NOT OVERCHARGE OR OVERDISCHARGE

Incompatibility (Materials to Avoid)

NONE

Hazardous Decomposition or Byproducts

NONE IN NORMAL CONDITIONS OF USE & SERVICE

<i>Hazardous Polymerization</i>	<i>May Occur</i>		<i>Conditions to Avoid</i> DO NOT OVERHEAT. DO NOT EXCEED 50°C.
	<i>Will Not Occur</i> X		

Section VI - Health Hazard Data

<i>Route(s) of Entry:</i>	<i>Inhalation?</i> N/A	<i>Skin?</i> N/A	<i>Ingestion?</i> N/A
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Health Hazards (Acute and Chronic)

NONE IN NORMAL CONDITIONS OF USE & SERVICE

Electrolyte is corrosive. Causes chemical burns on contact with skin. Inhalation of fine mist or vapors are irritating to the respiratory system.

<i>Carcinogenicity:</i>	<i>NTP?</i> "N/A"	<i>IARC Monographs?</i> N/A	<i>OSHA Regulated?</i> NO
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Signs and Symptoms of Exposure

NONE IN NORMAL OPERATING CONDITIONS

Medical Conditions Generally Aggravated by Exposure

N/A

Emergency and First Aid Procedures

INHALATION:	REMOVE TO FRESH AIR, SEEK MEDICAL ATTENTION
EYES:	FLUSH WITH COPIOUS AMOUNTS OF WATER, SEEK MEDICAL ATTENTION
SKIN:	FLUSH WITH COPIOUS AMOUNTS OF WATER, SEEK MEDICAL ATTENTION
INGESTION:	SEEK MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

ANY SPILLED LIQUID SHOULD BE ABSORBED WITH AN INERT DRY MATERIAL AND PLACED IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.
KEEP AWAY FROM HEAT AND SOURCES OF IGNITION.

Waste Disposal Method

DO NOT DISPOSE OF IN FIRE. FOLLOW ALL STATE AND LOCAL REGULATIONS FOR SOLID WASTE

Precautions to Be Taken in Handling and Storage

DO NOT PUNCTURE, DO NOT SHORT CIRCUIT, DO NOT OVERCHARGE, DO NOT OVERDISCHARGE
DO NOT MECHANICALLY ABUSE, DO NOT OVERHEAT

Other Precautions

DO NOT EXCEED 50°C

TRANSPORTATION: PSN LITHIUM-ION BATTERIES CLASS 9 UN3480 PG II

Section VIII - Control Measures

Respiratory Protection (Specific Type)

NONE REQUIRED UNDER NORMAL CONDITIONS

<i>Ventilation</i>	<i>Local Exhaust</i>	N/A	<i>Special</i>	N/A
	<i>Mechanical (General)</i>	N/A	<i>Other</i>	N/A

<i>Protective Gloves</i>	NONE REQUIRED UNDER NORMAL CONDITIONS	<i>Eye Protection</i>	NONE REQUIRED UNDER NORMAL CONDITIONS
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Other Protective Clothing or Equipment

NONE

Work Hygienic Practices

WASH THOROUGHLY AFTER USING THIS OR ANY BATTERY