

# **Material Safety Data Sheet**

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

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.

#### Nickel Cadmium Battery Packs

Section I	
Manufacturer's Name	Emergency Telephone Number
Milwaukee Electric Tool Corporation	1-800-424-9300
Address (Number, Street)	Contact Telephone Number for Technical Information
13135 West Lisbon Road	262-781-3600 or 1-800-729-3878 (1-800-SAWDUST)
(City, State, and Zip Code)	Date Prepared
Brookfield, Wisconsin 53005	May 2004

### Section II - Hazardous Ingredients/Identity Information

Hazardous Components [Specific Chemical Identity, Common name (s)]

Ingredient	% by Weight	OSHA Reg. Y/N	CAS#	OSHA PEL	ACGIH TLV	California Prop 65 Reg. Y/N	IARC/NTP Y/N
Cadmium	0-26	Y	7440-43-9	.005 TWA	.05 TWA		Y
Cadmium hydroxide	3-26	Υ	21041-95-2	.005 TWA	.05 TWA		Y
Nickel (powder)	8-17	N/A	7440-02-0	1 TWA	1 TWA		N/A
Nickel hydroxide	0-12	N/A	12054-48-7	1 TWA	1 TWA		N/A
Potassium or sodium hydroxide	0-4	N/A	1310-58-3	2 Ceiling	2 Ceiling		N/A
Lithium hydroxide	0.4≥	N/A	N/A	N/A	N/A		N/A
Nickel oxide hydroxide	1.12	N/A	N/A	N/A	N/A		N/A
Non-Hazardous Materials	Balance						

DOT Hazard Classification: Non-hazardous

SARA Title III Section 313: This product does not contain regulated levels of any toxic chemical subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR part 372.

HMIS <sup>®</sup> Rating Numbers		Health			Flammability		Reactivity	Personal Protection	
			N/A	А	N/A		N/A		N/A
Hazard Ratings:	0 = Mir	nimum hazard 1 = Slight ha		azard	d 2 = Moderate hazard		3 = Serious hazard	4 = Severe hazard	
	A = Go	aales	B = (	B = Goggles + Gloves		C = Face Shield Gloves	s + Apron X = Special See		ections VII & VIII of this sheet

# Section III - Physical/Chemical Characteristics

Boiling Point	Specific Gravity (H <sub>2</sub> O=1)
>392°F	>2.6
Vapor Pressure (mm/Hg.)	Melting Point
N/A	N/A
Vapor Density (Air=1)	Evaporation Rate
N/A	N/A

Solubility in Water

Slightly soluble (electrolyte)

Appearance and Odor

Solid sealed in a case

## Section IV - Fire and Explosion Hazard Data

Occionity incana Ex	piooioii riazara bata		
Flash Point (Method Used)	Flammable Limits	LEL	UEL
N/A	N/A	N/A	N/A

Extinguishing Media

Water, CO2

Special Fire Fighting Procedures

N/A

Unusual Fire and Explosion Hazards

Exposure to temperatures above 212°F can cause evaporation of the liquid content of the potassium hydroxide electrolyte resulting in rupture of the cell. Potential for exposure to cadmium fumes during fire; use self-contained breathing

Page 1 of 2 Revision Date: May 2004

Legend: Y - Yes

N - No

N/A - Not Applicable

METCo P/N: 58-97-1185

Section V - Reactivity Data									
Stability	Unstable Conditions to avoid:								
	Stable	Х	Heat, open flames, sparks, moisture.						
Incompatibility (Material to avoid): Acids, aldehydes, and carbonate compounds.									
	omposition or Byp		te compounds.						
	admium and								
Hazardous	May Occur		Conditions to avoid:						
Polymerization	Stable	Х	N/A						
Section '	VI - Health	Haza	rd Data						
Route(s) of Ent			Inhalation?	Skin?		Ingestion?			
During normal u			N/A	N/A		N/A			
	(Acute and Chror		ectrolyte may cause skin or ey	ve irrit	ation.				
Signs and Sym	otoms of Exposure	e:	och on the may be decided on the or of	, 0					
			or eye irritation. Flush immed	diatel	y with water.				
	ons Generally Ago	gravated by	/ Exposure:						
N/A during	normal use. First Aid Procedu	Iroe							
			es, flush area with clean wate	er.					
			s for Safe Handling and		<b>;</b>				
Steps to Be Tal	en in Case Mater	ial is Relea	sed if Spilled						
		cely. If a	disassembled avoid contact w	ith sk	in and eyes.				
Waste Disposal		hazardo	ous waste and should be disp	haan	of according to Federal st	tate, and local regulations			
Precautions to I	Be Taken in Hand	ling and St	oring	USEU	or according to rederal, si	ate, and local regulations.			
Never short circuit cells. Personal injury and fire may result.									
Other Precautions									
If battery contents are released, do not touch spilled material. Take up with sand or other absorbent and place in									
container for disposal as a hazardous waste per Federal, state, and local regulations.									
Section VIII - Control Measures									
Respiratory Protection (Specify Type) Unnecessary during normal use.									
Ventilation Local Exhaust Special									
	N/A N/A								
	Mechanical Other								
N/A N/A									
Protective Gloves  Eye Protection  N/A during pormal use									
N/A during normal use.  Other Protective Clothing or Equipment:  N/A during normal use.									
N/A									
Work/Hygienic Practices									

The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. MILWAUKEE ELECTRIC TOOL CORPORATION makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof.

Page 2 of 2 Revision Date: May 2004

Legend: Y - Yes N - No N/A - Not Applicable

N/A

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