

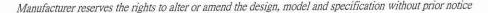
Product Name: Klein Non-Contact

Voltage Tester (NCVT-1)

Model Name.: Zinc Dry Battery(Manganese Dry Battery) Material Safety Data Sheet 05 Page 1 of 4 Document Number: MSDS_Zinc Dry Battery Revision: Note: Blank spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate Identity (As Used on Label and List) Carbon Zinc Dry Battery - R03, R6P, R14P, R20P, 6F22 (Manganese Dry Battery) Section I Emergency Telephone Number Supplier's Name 852-2730-9243 Maxell Asia Ltd. Address (Number, Street, City, State and ZIP Code) Telephone Number for Information 506, World Commerce Centre, Harbour City, 852-2735-6250 Date Prepared 9-Feb-09 Harbour City, Phase 1 Signature of Prepared (optional) Canton Road, Kowloon, Hong Kong Section II - Hazardous Ingredients/Identity Information Hazardous Components: Approximate % of total weight Description: < 0.0001 wt% Mercury (Hg) < 0.001wt% Cadmium (Cd) < 0.2 wt% Lead (Pb) Section III - Physical / Chemical Characteristics **Boiling Point** Specific Gravity (H2O = 1) N.A. N.A. Vapor Pressure (mm Hg) Melting Point N.A. N.A. Evaporation Rate (Butyl Acetate) Vapor Density (AIR=1) N.A. N.A. Solubility in Water N.A. Appearance and Odor Cylindrical Shape, odorless Section IV - Fire and Explosion Hazard Data LEL UEL Flammable Limits Flash Point (Method Used) Ignition Temp. N.A. N.A. Extinguishing Media Special Fire Fighting Procedures Unusual Fire and Explosion Hazards Do not dispose of battery in fire - may explode Do not short-circuit battery - may cause burns



Model Name.: Zinc Dry Battery (Manganese Dry Battery) Material Safety Data Sheet Page 2 of 4 05 Revision: Document Number: MSDS_Zinc Dry Battery Section V - Reactivity Data Conditions to Avoid Stability Unstable X Stable Incompatibility (Materials to Avoid) Hazardous Decomposition of Byproducts Conditions to Avoid Hazardous May Occur Polymerization X Will Not Occur Section VI - Health Hazard Data Ingestion Skin? Inhalation? Route(s) of N.A. N.A. Health Hazard (Acute and Chronic) / Toxiclogical information In case of electrolyte leakage, skin will be itchy when contaminated with electrolyte. In contact with electrolyte can cause severe irritation and chemical burns. Inhalation of electrolyte vapors may cause irritation of the upper respiratory tract and lungs Section VII - First Aid Measures First Aid Procedures If electrolyte leakage occurs and makes contact with skins, wash plenty of water immediately. If electrolyte comes into contact with eyes, wash with copious amounts of water for fifteen (15) minutes, and contact a physician. If electrolyte vapors are inhaled, provide fresh air and seek medical attention if respiratory irritation develops, Ventilate the contaminated area. Section VIII - Accidental Release of Spillage Step to Be Taken in Case Material is Released or Spilled Batteries that are leakage should be handled with rubber gloves. Avoid direct contact with electrolyte. Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA). Section IX - Handling and Storage Safe handling and storage advice Batteries should be handled and stored carefully to avoid short circuits. Do not store in disorderly fashion, or allow metal objects to be mixed with stored batteries. Never disassemble a battery. Do not breathe cell vapors or touch internal material with bare hands. Keep batteries between -30°C and 35°C for prolong storage.





Model Name.: Zinc Dry Battery(Manganese Dry Battery) Material Safety Data Sheet Page 3 of 4 05 Document Number: MSDS_Zinc Dry Battery Revision: Section X - Exposure Controls / Person Protection Occupational Exposure Limits: STEP LTEP N.A. N.A. Respiratory Protection (Specify Type) N.A. Local Exhausts Special Ventilation N.A. N.A. Mechanical (General) Other N.A. N.A. Eye Protection Protective Gloves N.A. N.A. Other Protective Clothing or Equipment N.A. Work / Hygienic Practices N.A. Section XI - Ecological Information N.A. Section XII - Disposal Method Dispose of batteries according to government regulations





Material Safety Data Sheet

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Section XIII -	- Transportation Information	<u> </u>			
	Maxell batteries are considered to be "Dry cell" batteries and are unregulated for purpose of transportation by the U.S. Department of Transportation (DOT), International Civil Aviation Administration (ICAO), International Air Transport				
Association (IATA) and International Maritime Dangerous Goods Regulations (IMDG). The only D				us Goods Regulations (IMDG). The only DOT requirement	
	for shipping these batteries is special provision 130 which states: "Batteries, dry are not subject to the requirements				
	of this subchapter only when t	of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of			
	heat (For example, by the effective insulation of exposed terminals). The only requirement for shipping these batteries				
	by ICAO and IATA is Special	by ICAO and IATA is Special Provision A123 which states: " An electrical battery or battery powered device having			
	the potential of dangerous evolutions of heat that is not prepared so as to prevent a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or in the case of equipment, by disconnection of the batter				
	and protection of exposed terminals) is forbidden from transportation." The international Maritime Dangerous Goo				
	Code (IMDG) regulate them for ocean transportation under Special Provision 304 which says: Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provision				
	of this Code provided the batteries are securely packed and protected against short-circuits. Example of such batter				
	are : alkali-manganese, zinc ca	se, zinc carbon, nickel metal hydride and nickel-cadmium batteries.			
	Non-dangerous goods.				
	Such battery have been packed	d in inner packag	ing in suc	h a manner as to effectively prevent short circuit and	
	movement that could lead to s	hort-circuit.			
Section XIV	- Regulation Information				
	Special requirement be accord	ing to the local r	egulatorie	S	
Section XV -	Other information				
	The data in this Material Safet	ty Data Sheet rela	ites only t	o the specific material designated herein	
Section XVI	- Measure for fire extinction				
	In case of fire, it is permissibl	e to use any class	of exting	uishing medium on these batteries or their packing	
	material.				
	Cool exterior of batteries if ex	posed to fire to p	revent ruj	oture.	
	Fire fighters should wear self-	contained breath	ng appara	itus.	

