

Page 1 of 4

MATERIAL SAFETY DATA SHEET

NAME: CAS NO:	DURACI Not applie	ELL PROCI	ELL PROF	ESSI	ONAL Al			TERIES 1/06/2003	Rev:	3	
A IDE								1,00,200	_		
A. — IDEI	VIIFICATI	ON			Enmodes M		M. 4				
				<u>%</u>	Formula: Mixture Mixture						
Manganese Dioxide (1313-13-9)				35-40	Molecular Weight: NA						
Zinc (7440-66-6)				10-25 5-10	Synonyms: Procell Alkaline Manganese Dioxide						
Potassium Hydroxide (35%) (1310-58-3) Graphite, natural (7782-42-5) or synthetic					Batteries: PC1300 (D); PC1400 (C); PC1500 (AA); PC2400 (AAA); PC903 (Lantern); PC908						
(7440-44-0)				1-5		(6V); P	PC915 (6V);	PC918 (6V); PC1604	(9V);	
					PC9100 (N); PC7K67 (J) and batteries						
B. — PHY	SICAL DA	\TA				compi	rised of the	ese cells.			
D. — PINI	Boiling Point			Maltin	g Point			Freezing	n Point		
NA	-	NA °c	NA	°F	NA	°C	NA	°F	NA	°C	
Specific Gravity (H ₂ O=1)			Vapor Density (air=1)				Vapor Pr	essure @		<u> </u>	
NA				NA				NA	mm H		
Evaporation				Saturation in Air			Autoignition Temperature				
<u> Ether</u>			(by volume				°F°C				
NA				NA			NA				
% Volatiles NA			Solubility in Water NA				рН	NA			
			-	IVA					IVA		
Appearance/C	<u> </u>	indrical batte	ries. Conter	nts dar	k in color.						
Flash Point an Test Method(s	* * * * * * * * * * * * * * * * * * *										
Flammable Li	mits in Air										
(% by vo	lume)		Lower _	N	<u>VA</u> %)	Uppe	N	4 %	D	
C. — REA	CTIVITY										
Stability X stable unsta			le	Polyme	rization	may occur X will not occur					
Conditions to Avoid					Conditions to Avoid						
Do not heat, crush, disassemble, short circuit or					Not appli	cable					
recharge.											
Incompatible Materials Contents incompatible with strong oxidizing agent					Hazardous Decomposition Products						
				ents.							
					of zinc and manganese; hydrogen gas; caustic vapors of potassium hydroxide and other toxic by-products.						
-					_			other tox	ic by pro	ducts.	
	PLE INGRE	EDIENTS, INC	CLUDE CAS	NUM	BERS FO	R EACH		NA=NOT	AVAILA	BLE	
Footnotes Not applical	hla										
Not applical	OIE .										

D. — HEALTH HAZARD DATA

Occupational Exposure Limits PEL's, TLV's, etc.)

8-Hour TWAs:

Manganese Dioxide (as Mn) - 5.0 mg/m³ (Ceiling) (OSHA); 0.2 mg/m³ (ACGIH/Gillette) Potassium Hydroxide - 2 mg/m³ (Ceiling) (ACGIH)

Graphite (all kinds except fibrous) - 2 mg/m (ACGIH; (synthetic); 15 mg/m (total, OSHA); 5 mg/m (respirable, OSHA)

These levels are not anticipated under normal consumer use conditions.

Warning Signals

Not applicable

Routes/Effects of Exposure

These chemicals and metals are contained in a sealed can. For consumer use, adequate hazard warnings are included on both the package and on the battery. Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused. Contains concentrated (~35%) potassium hydroxide, which is caustic. Anticipated potential leakage volume of potassium hydroxide is 2 to 20 ml, depending on size. A similar amount of zinc may also leak.

1. Inhalation Respiratory (and eye) irritation may occur if fumes are released due to heat or an abundance of

leaking batteries.

2. Ingestion Not anticipated due to size of batteries; choking may occur with the smaller AAA battery.

Irritation, including caustic burns/injury, may occur following exposure to a leaking battery.

3. Skin a. Contact

Irritation, including caustic burns/injury, may occur following exposure to a leaking battery

b. Absorption

Not anticipated.

4. Eye Contact Irritation, including caustic/burns/injury, may occur following exposure to a leaking battery.

5. Other Not applicable

E. — ENVIRONMENTAL IMPACT

1. Applicable Regulations All ingredients listed in TSCA inventory.

2. DOT Hazard Class - Not applicable

3. DOT Shipping Name - Not applicable

Please note: These batteries are not regulated by U. S. DOT or international agencies as hazardous materials or dangerous goods when shipped. Duracell uses the article name 'Alkaline Batteries - Non-hazardous' on all domestic and internal bills of

lading.

Environmental Effects

These batteries pass the U. S. EPA's Toxicity Characteristic Leaching Procedure and therefore, may be disposed of with normal waste.

F. — EXPOSURE CONTROL METHODS
Engineering Controls
General ventilation under normal use conditions.
General ventuation under normal use conditions.
E - Potentin
Eye Protection None under narmal use conditions. Wear sofety glasses when handling leaking betteries
None under normal use conditions. Wear safety glasses when handling leaking batteries.
Skin Protection
None under normal use conditions. Use neoprene, rubber or latex-nitrile gloves when handling leaking
batteries.
batteries.
Respiratory Protection
None under normal use conditions.
Other
Keep batteries away from small children.
Recp batteries away from small emidien.
G. — WORK PRACTICES
Handling and Storage
Store at room temperature. Avoid mechanical or electrical abuse. DO NOT short or install incorrectly.
Batteries may explode, pyrolize or vent if disassembled, crushed, recharged or exposed to high temperatures.
Install batteries in accordance with equipment instructions. Do not mix battery systems, such as alkaline and
zinc carbon, in the same equipment. Replace all batteries in equipment at the same time. Do not carry
batteries loose in pocket or bag.
curve to occur in province of ourg.
Normal Clean Up
Not applicable
Waste Disposal Methods
Individual consumers may dispose of spent (used) batteries with household trash. Duracell does not
recommend that spent batteries be accumulated (quantities of five gallons or more should be disposed of in a
secure landfill), in accordance with appropriate federal, state and local regulations. Do not incinerate, since

batteries may explode at excessive temperatures.

H. — EMERGENCY PROCEDURES

Steps to be taken if material is released to the environment or spilled in the work area

Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Avoid eye or skin contact and inhalation of vapors. Increase ventilation. Clean-up personnel should wear appropriate protective gear.

Fire and Explosion Hazard

Batteries may burst and release hazardous decomposition products when exposed to a fire situation. See Sec. C.

Extinguishing Media

As appropriate for surrounding area.

Firefighting Procedures

Use self-contained breathing apparatus and full protective gear.

I. — FIRST AID AND MEDICAL EMERGENCY PROCEDURES

Eyes

Not anticipated. If battery is leaking and material contacts eyes, flush with copious amounts of clear, tepid water for 30 minutes. Contact physician at once.

Skin

Not anticipated. If battery is leaking, irrigate exposed skin with copious amount of clear, tepid water for at least 15 minutes. If irritation, injury or pain persists, consult a physician.

Inhalation

Not anticipated. If battery is leaking, contents may be irritating to respiratory passages. Remove to fresh air. Contact physician if irritation persists.

Ingestion

Not anticipated. Rinse the mouth and surrounding area with clear, tepid water for at least 15 minutes. Consult a physician immediately for treatment and to rule out involvement of the esophagus and other tissues.

Notes to Physician

- 1) The primary acutely toxic ingredient is concentrated potassium hydroxide (approximately 35%).
- 2) Anticipated potential leakage volume of potassium hydroxide is 2-20 ml, depending on size.
- 3) This MSDS does not include or address the small button or cell batteries which can be ingested.

ADDITIONAL INFORMATION

Replaces 2013.2

This MSDS covers discontinued Product No. PC926

The information contained in the Material Safety Data Sheet is based on data considered to be accurate, however, no warranty is expressed or implied regarding the accuracy of the data or the results to be obtained from the use thereof.

MSDS-5 (2/00) GMEL# 2000.3

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