Product Safety Data Sheet (PSDS)

EU Office
Procter& Gamble
Switzerland SARL
Route de Saint-Georges 47
1213 Petit-Lancy, 1, Geneva,
Telephone: +41-58-004-6111

US Office
Duracell, a division of P&G
Berkshire Corporate Park
Bethel, CT 06801 USA
Telephone: 203-796-4000

SECTION I – PRODUCT IDENTIFICATION

The battery products referenced in this PSDS document are consumer products. Batteries are "articles" under the Global Harmonized System and are exempted from the GHS labeling and SDS classification criteria. This PSDS document is provided as service in response to requests for information on battery use, safety and regulatory compliance.

Identity: Primary Specialty Alkaline Cell Batteries, 0% Mercury **Description: Consumer Product**
Brand: Duracell®

Designation	**Nominal Voltage**	**IEC Designation**
LR43	1,5	LR43
LR44	1.5	LR44
LR54	1,5	LR54
MN11	6	
MN21	12	3LR50
MN27	12	
MN175	7,5	5LR44
PX28	6,0	4LR44
PX675A	1,5	LR09

SECTION II - HAZARDS IDENTIFICATION

CAUTION: Do not recharge or dispose of batteries in fire. Do not carry batteries loose in your pocket or purse. Keep batteries away from children. If swallowed, consult a physician at once.

SECTION III - COMPOSITION AND INGREDIENTS

The chemicals and metals in this product are contained in a sealed can. Exposure to the contents will not occur unless the battery leaks, is exposed to high temperatures or is mechanically, physically, or electrically abused.

Chemical Name	CAS Number	EINECS Number	Amount	Classification	Exposure Limits
Zinc	7440-66-6	231-175-3	<13%%	N, R50/53	None established for zinc metal
Manganese Dioxide	1313-13-9	215-202-6	<36	Xn, R20/22	0,5 mg/m^3 TWA UK WEL 0,5 mg/m^3 TWA (inhalable) DFG MAK 0,2 mg/m^3 VL Belgium 0,2 mg/m^3 TWA Denmark LV
35% Mixture:			<16%C, Xn, R22, R35		
Potassium Hydroxide	*1310-58-3*	*215-181-3*			*2 mg/m^3 STEL UK WEL* *2 mg/m^3 VCD Belgium* *2 mg/m^3 Ceiling Denmark LV*
Sodium Hydroxide	1310-73-2	215-185-5			2 mg/m^3 STEL UK WEL 2 mg/m^3 VL Belgium 2 mg/m^3 Ceiling Denmark LV

SECTION IV – FIRST AID INFORMATION

Damaged battery will release concentrated potassium hydroxide, which is caustic.

Ingestion: Do not induce vomiting. Seek medical attention immediately.

Eye Contact: Immediately flush eyes thoroughly with water for at least 15 minutes. Seek medical attention if irritation persists.

Skin Contact: Remove contaminated clothing and wash skin with soap and water. If irritation persists, seek medical attention.

Inhalation: Move to fresh air. If irritation persists, seek medical attention.

SECTION V - FIRE FIGHTING INFORMATION

Hazardous Combustion Products: Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas, caustic vapors of potassium hydroxide and other toxic by-products.

Extinguishing Media: Use any extinguishing media that is appropriate for the surrounding area.

Protection of Firefighters:

Specific Hazards Arising from the Material: Batteries may burst and release hazardous decomposition products when exposed to a fire situation.

Protective Equipment and Precautions for Firefighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Clean-up personnel should wear appropriate clothing to avoid eye and skin contact and inhalation of vapors and fumes. Ventilate area. Carefully collect batteries and place in an appropriate container for disposal.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: Avoid mechanical or electrical abuse. DO NOT short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions.

Precautions To Be Taken in Storage: Store batteries in a dry place at normal room temperature. Do not refrigerate – this will not make them last longer.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

NOT APPLICABLE – Finished consumer product

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Finished consumer product – small, sealed, round, button battery.

SECTION X - STABILITY AND REACTIVITY

Finished consumer product – stable under normal conditions of use. Contents are incompatible with strong oxidizing agents. Do not heat, crush, disassemble, short circuit or recharge.

SECTION XI - TOXICOLOGICAL INFORMATION

Finished consumer product:

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished consumer product is not carcinogenic.

SECTION XII - ECOLOGICAL INFORMATION

No eco-toxicity data are available. This product is not expected to present an environmental hazard.

SECTION XIII - DISPOSAL CONSIDERATIONS

Do not incinerate. Disposal should be in accordance with the EU Battery Directive 206/66/EC.

SECTION XIV - TRANSPORT INFORMATION

Zinc air battery products, covered by this PIS, in their original form, are considered "dry cell" batteries and are not regulated for transportation as "DANGEROUS GOODS." However, special regulatory provisions apply that require batteries to be packaged in a manner that prevents the generation of a dangerous quantity of heat and short circuits. Product shipped in its original unopened Duracell packaging is compliant with the following packaging special provisions:

Ground Transport (ADR/RID): Special Provisions 295 – 304

Air Transport (IATA): Special Provision A123
Marine/Water Transport (IMDG/ICAO): Provision 295 – 304
For Transportation Emergencies: CALL 1+ 703-527-3887 (CHEMTREC)

SECTION XV - REGULATORY INFORMATION

EU Classification of Preparation: Not classified as a dangerous preparation
EU Battery Directive: Conform to the substance restriction limits and labeling requirements set forth in the EU Battery Directive 2006/66/EC. Package is labeled with the trash bin special collection symbol.
EU RoHS Directive: Batteries are not subject to the RoHS Directive.
EU REACH: Batteries are "articles" under REACH and not subject to registration or e-SDS requirements. Duracell alkaline batteries do not contain any of the 84 SVHCs per the ECHA updated Candidate List of June 18, 2012.
EU Labeling: None required. Labeling is not required because batteries are classified as articles under both REACH and the Dangerous Preparations Directive and are exempt from the labeling requirements. .

SECTION XVI - OTHER INFORMATION

P&G Hazard Rating*:	Health:	0	4=EXTREME
	Flammability:	0	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

**Hazard Ratings are supplied for use only in connection with occupational safety and health.*

EU Classes and Risk Phrases for Reference (See Sections 2 and 3)
C Corrosive
N Dangerous for the Environment
Xn Harmful
R20/22: Harmful by inhalation and if swallowed.
R22: Harmful if swallowed.
R35: Causes severe burns
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER: This PSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

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