

ITEM: 5LE23 - PK24 Battery AA 1.5v

MSDS: L2926

ORDER: 0082206566

LP NUMBER: U842931981

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - L2926

Associated Grainger Items

5LE21, 5LE22, 5LE23, 5LE24, 5LE25, 5LE27, 8A514, 8A515, 9DR90, 9HUG1, 9W750

G

GILLETTE ENVIRONMENT HEALTH AND SAFETY

37 A STREET
NEEDHAM, MA 02492

TEL: 781.292.8151

MATERIAL SAFETY DATA SHEET

NAME: DURACELL PROCELL PROFESSIONAL ALKALINE BATTERIES

CAS NO: NOT APPLICABLE

EFFECTIVE DATE: 11/06/2003

REV: 3

A. - IDENTIFICATION

	%
MANGANESE DIOXIDE (1313-13-9)	35-40
ZINC (7440-66-6)	10-25
POTASSIUM HYDROXIDE (35%) (1310-58-3)	5-10
GRAPHITE, NATURAL (7782-42-5) OR SYNTHETIC (7440-44-0)	1-5

FORMULA: MIXTURE

MOLECULAR WEIGHT: NA

SYNONYMS:
PROCELL ALKALINE MANGANESE DIOXIDE BATTERIES:
PC1300 (D); PC1400 (C); PC1500 (AA); PC2400 (AAA); PC903 (LANTERN); PC908 (6V); PC915 (6V); PC918 (6V); PC1604 (9V); PC9100 (N); PC7K67 (J) AND BATTERIES COMPRISED OF THESE CELLS.

B. - PHYSICAL DATA

BOILING POINT:
NA DEG. F
NA DEG. C

MELTING POINT:
NA DEG. F
NA DEG. C

FREEZING POINT:
NA DEG. F
NA DEG. C

SPECIFIC GRAVITY (H2O=1): NA

VAPOR DENSITY (AIR=1): NA

VAPOR PRESSURE @ DEG. F: NA MMHg

EVAPORATION (ETHER = 1): NA

SATURATION IN AIR (BY VOLUME @ DEG. F): NA

AUTOIGNITION TEMPERATURE DEG. F DEG. C: NA

% VOLATILES: NA

SOLUBILITY IN WATER: NA

pH: NA

APPEARANCE/COLOR: CYLINDRICAL BATTERIES. CONTENTS DARK IN COLOR.

FLASH POINT AND TEST METHOD(S): NA

FLAMMABLE LIMITS IN AIR (% BY VOLUME):
LOWER: NA %
UPPER: NA %

C. - REACTIVITY

STABILITY:
(X) STABLE
() UNSTABLE

CONDITIONS TO AVOID:
DO NOT HEAT, CRUSH, DISASSEMBLE, SHORT CIRCUIT OR RECHARGE.

INCOMPATIBLE MATERIALS: CONTENTS INCOMPATIBLE WITH STRONG OXIDIZING AGENTS.

POLYMERIZATION:
() MAY OCCUR
(X) WILL NOT OCCUR

CONDITIONS TO AVOID: NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS:
THERMAL DEGRADATION MAY PRODUCE HAZARDOUS FUMES OF ZINC AND MANGANESE;
HYDROGEN GAS; CAUSTIC VAPORS OF POTASSIUM HYDROXIDE AND OTHER TOXIC BY-PRODUCTS.

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 (APPROX. 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.

EYE PROTECTION:

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.

RESPIRATORY PROTECTION: NONE UNDER NORMAL USE CONDITIONS.

OTHER: KEEP BATTERIES AWAY FROM SMALL CHILDREN.

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.

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.