9047 AAA Ballery ITEM: 5LE25 - Battery AAA 1.5v Pk24

PICK REO: 1060372902

MATERIAL SAFETY DATA SHEET (MSDS)

ciated Grainger Item: 5LE25 - Battery AAA 1.5v Pk24

C

GILLETTE ENVIRONMENT HEALTH AND SAFETY 37 A STREET NEELHAM, 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

SYNCHYMS:
PROCELL ALKALINE MANGANESE DIOXIDE BATTERIES:
PC1300 (D); PC1400 (C); PC1500 (AA); PC2400 (AAA); PC903 (LANTERN); PC908 (6V); PC915 (6V); PC916 (6V); PC916 (6V); PC916 (V); PC7K67 (J) AND BATTERIES COMPRISED OF THESE CELLS.

— B. - PHYSICAL DATA -

BOILING POINT:

NA DEG. F NA DEG. C

NG POINT: NA DEG. C

FREEZING POINT:

NA DEC. 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

All: Ha

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) MILL NOT OCCUR

TITIONS TO AVOID: NOT APPLICABLE

ADOUS DECOMPOSITION PRODUCTS:
Thus MAIL DECRADATION MAY PRODUCE HAZARDOUS FUMES OF ZINC AND MANGANESE;
HYDROGEN GAS; CAUSTIC VAPORS OF POTASSIUM HYDROXIDE AND OTHER TOXIC
BY-PRODUCTS.

OCCUPATIONAL EXPOSURE LIMITS PEL'S, TLV'S, ETC.)

8-HOUR TWAS

MANGANESE DIOXIDE (AS Mo) 5.0 MG/M3 (CEILING) (OSHA) 0.2 MG/M3 (ACGIH/GILLETTE)

POTASSIUM HYDROXIDE: 2 MG/MB (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%) POTRASSIUM
HYDROXIDE, WHICH IS CAUSTIC. ANTICIPATED POTENTIAL LEAKAGE VOLUME OF
POTRASSIUM HYDROXIDE IS 2 TO 20 ML, DEPENDING ON SIZE. A SIMILAR AMOUNT OF
ZINC MAY ALSO LEAK. ROTTES/REFECTS OF EXPOSURE: ZINC MAY ALSO LEAK.

INHALATION: A. INCALALIAN: RESPIRATORY (AND EYE) IRRITATION MAY OCCUR IF FUMES ARE RELEASED DUE TO HEAT OR AN ABUNDANCE OF LEAKING BATTERIES.

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.

EYE CONTACT: TREITATION, 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: PLEASE NOTE:
THESE BATTERIES ARE NOT REGULATED BY U.S. DOT OR INTERNATIONAL AGENCIES AS
HAZARDOUS MATERIALS OR DANGEROUS GOODS WEEN 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 COMIROLS: 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
DISASSIBLED, CRUSHED, RECHARGED OR EXPOSED TO HIGH TEMPERATURES. INSTALL
BATTERIES IN ACCORDANCE WITH BOULPMENT INSTRUCTIONS. DO NOT MIX BATTERY
SYSTEMS, SUCH AS ALMALINE 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: WASTE DISPOSAL METHOUS:
INDIVIDIAL CONSUMERS MAY DISPOSE OF SPENT (USED) BATTERIES WITH HOUSEHOLD
TRASH, DURACTELL 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

STEES TO BE TAKEN IF MATERIAL IS RELEASED TO THE WORK AREA:

NOTIFY SAFETY PERSONNEL OF LARGE SPILLS, CAUSTIC POTASSIUM HYDROXIDE MAY BE
RELEASED FROM LEAKING OR RUPTURED PATTERIES, AVOID EYE OR SKIN CONTACT AND
INHALATION OF VAPORS, INCREASE VENTHATION, CLEAN-UP PERSONNEL SHOULD WEAR PROPRIATE PROTECTIVE GEAR.

AND EXPLOSION HAZARD:

LERIES MAY BURST AND RELEASE HAZARDOUS DECOMPOSITION PRODUCTS WHEN EXPOSED TO A FIRE SITUATION. SEE SEC. C.

EXTINGUISHING MEDIA: AS APPROPRIATE FOR SURROUNDING AREA.

FIREFICHTING PROCEDURES: USE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR.

— I. - FIRST AID AND MEDICAL EMERGENCY PROCEDURES -

EYES:

NOT ANTICIPATED. IF PATTERY 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 ANICIPATED. IF BATTERY IS LEAKING, CONTENTS MAY BE IRRITATING TO
RESPIRATORY PASSAGES. REMOVE TO FRESH AIR. CONTACT PHYSICIAN IF IRRITATION
PERSISTS.

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 INCREDIENT 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 BUITON 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 FROM THE RESULTS TO BE OBTAINED FROM THE THEREOF.

AND MILITIPLE INGREDIENTS, INCLUDE CAS NUMBERS FOR EACH

NA=NUL AVAILABLE

FOOTNOTES: NOT APPLICABLE

MSDS-5 (2/00)

GMEL#: 2000.3