

ITEM: 4WT07 - BATTERY 1.5 V D PK12

PICK REQ: 0171437894

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A4917

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

\*\*\*\*\* MATERIAL SAFETY DATA SHEET - A4917 \*\*\*\*\*

Associated Grainger Item: 4WT07 - BATTERY 1.5 V D PK12

RAYOVAC(R\*)  
MATERIAL SAFETY DATA SHEET

RAYOVAC CORPORATION  
601 RAYOVAC DRIVE  
MADISON, WI 53711

PH: 608-275-3340

FAX: 608-275-4992

1. WE WOULD LIKE TO INFORM OUR CUSTOMERS THAT THESE BATTERIES ARE EXEMPT ARTICLES AND ARE NOT SUBJECT TO THE 29 CFR 1910.1200 OSHA REQUIREMENT, OR TO THE CANADIAN WHMIS REQUIREMENTS AND THE SHEETS ARE SUPPLIED AS A SERVICE TO YOU. FOR OTHER MSDS AND RELATED INFORMATION, VISIT:  
HTTP://WWW.RAYOVAC.COM.

2. THESE BATTERIES ARE SUITABLE FOR ORDINARY LANDFILL DISPOSAL (SEE SECTION 7 FOR RECYCLING).

4LM07 4LM13 5U813 2V533 2V422 4WT09 2V421 4WT08 2V534 4WT07 2V532 4WT11 5U076 4LV99 6XT34

1WC71 1WC72 1WC73 1WC72 - THESE SKU ARE ON CROSS-REFERENCE AND WEBSITE. ALL OTHERS MUST BE ADDED

1. IDENTIFICATION

PRODUCT NAME: ALKALINE BATTERIES - "NO MERCURY" FORMULA

SIZES: ALL

EMERGENCY TELEPHONE NUMBER:  
608-275-4859 OR  
800-424-9300 (24 HR. CHEMTREC)

EDITION DATE: 03/01/2002

APPROVED BY: TIMOTHY J. ANDERSON

2. INGREDIENTS

INGREDIENT NAME	CAS #	%	*TLV & SOURCE (UNITS)
MANGANESE DIOXIDE	1313-13-9	32 - 38	0.2 MG/M3
STEE	7439-89-6	19 - 23	
ZINC	7440-66-6	11 - 16	10 MG/M3 (ZnO)
POTASSIUM HYDROXIDE	1310-58-3	5 - 9	C 2 MG/M3 (STEL)
GRAPHITE	7782-42-5	3 - 5	2 MG/M3
BARIUM SULFATE	7727-43-7	<5	10 MG/M3
WATER, PAPER, PLASTIC, OTHER		BALANCE	

\*ACGIH THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS, 2001.

3. PHYSICAL DATA

BOILING POINT @ 760 MMHg (DEG. C): NA

VAPOR PRESSURE (MMHg @ 25 DEG. C): NA

VAPOR DENSITY (AIR = 1): NA

DENSITY (GRAMS/CC): NA

PERCENT VOLATILE BY VOLUME (%): NA

EVAPORATION RATE (BUTYL ACETATE = 1): NA

PHYSICAL STATE: NA

SOLUBILITY IN WATER (% BY WEIGHT): NA

pH: NA

APPEARANCE AND ODOR: GEOMETRIC SOLID OBJECT

4. FIRE & EXPLOSION HAZARD DATA

FLASH POINT: NA

FLAMMABLE LIMITS IN AIR (%): NA

LOWER (LEL): NA

UPPER (UEL): NA

EXTINGUISHING MEDIA: USE WATER, FOAM OR DRY POWDER, AS APPROPRIATE.

AGGRAVATION: NA

SPECIAL FIRE FIGHTING PROCEDURES:  
AS WITH ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF HAZARDOUS DECOMPOSITION PRODUCTS (SEE SECTION 2).

SPECIAL FIRE EXPLOSION HAZARDS:

5. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV) AND SOURCE: NA

EFFECTS OF OVEREXPOSURE:  
NONE. (IN FIRE OR RUPTURE SITUATION SEE SECTION 2 AND SECTION 4)

EMERGENCY FIRST AID PROCEDURES:

SKIN AND EYES:  
IN THE EVENT THAT BATTERY RUPTURES, FLUSH WITH COPIOUS QUANTITIES OF FLOWING LUKEWARM WATER FOR A MINIMUM OF 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION FOR EYES. WASH SKIN WITH SOAP AND WATER.

SWALLOWING:  
INGESTION OF A BATTERY CAN BE HARMFUL. CALL THE NATIONAL BATTERY INGESTION HOTLINE (202-625-3333) - COLLECT, DAY OR NIGHT - FOR ADVICE AND FOLLOW-UP.

6. REACTIVITY DATA

STABLE OR UNSTABLE: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): NA

HAZARDOUS DECOMPOSITION PRODUCTS: NA

DECOMPOSITION TEMPERATURE (0 DEG. F): NA

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: AVOID ELECTRICAL SHORTING.

7. SPILL OR LEAK PROCEDURES

PROCEDURES TO CONTAIN AND CLEAN UP LEAKS OR SPILLS:  
IN THE EVENT OF A BATTERY RUPTURE, PREVENT SKIN CONTACT AND COLLECT ALL RELEASED MATERIAL IN A PLASTIC LINED METAL CONTAINER.

REPORTING PROCEDURE:  
REPORT ALL SPILLS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REPORTING REQUIREMENTS.

WASTE DISPOSAL METHOD:  
WHEN SHREDDED PER TOXICITY CHARACTERISTIC LEACHATE PROCEDURE (TCLP) PARAMETERS AND TESTED PER SW 846, 3RD EDITION, TEST METHODS FOR EVALUATING SOLID WASTE, INDEPENDENT CERTIFIED LABORATORY ANALYSES HAVE INDICATED THESE RAYOVAC BATTERY TYPES TO HAVE NO HAZARDOUS WASTE CHARACTERISTICS (PER 40 CFR, PART 261.24) AND CAN BE LANDFILLED IF ALL OTHER FEDERAL, STATE AND LOCAL REGULATIONS ARE COMPLIED WITH. TCLP DATA IS AVAILABLE UPON REQUEST; CALL 608-275-4859. FOR ADDITIONAL INFORMATION ON DISPOSAL OR RECYCLING OPTIONS, VISIT OUR WEBSITE AT HTTP://WWW.RAYOVAC.COM.

8. PROTECTION INFORMATION

RESPIRATORY PROTECTION (SPECIFY TYPE): NA

VENTILATION:  
LOCAL EXHAUST: NA  
MECHANICAL (GENERAL): NA  
SPECIAL: NA  
OTHER: NA

PROTECTIVE GLOVES: NA

EYE PROTECTION: NA

OTHER PROTECTIVE CLOTHING: NA

9. SPECIAL PRECAUTIONS

HANDLING AND STORAGE:  
STORE IN A DRY PLACE. STORING UNPACKAGED CELLS TOGETHER COULD RESULT IN CELL SHORTING AND HEAT BUILD-UP.

TRANSPORTATION-SHIPPING:  
THESE ARE "BATTERIES, DRY" AND ARE NOT CONSIDERED TO BE A "HAZARDOUS MATERIAL" PER U.S. DOT (DEPT. OF TRANSPORTATION) REGULATIONS OR "DANGEROUS GOODS" PER IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION) REGULATIONS.

10. GARA 313

NOTIFICATION IS NOT REQUIRED BECAUSE THESE PRODUCTS ARE ARTICLE(S) THAT DO NOT RELEASE A COVERED TOXIC CHEMICAL UNDER THE NORMAL CONDITIONS OF PROCESSING OR USE.

NOTICE:  
THE INFORMATION AND RECOMMENDATIONS SET FORTH ARE MADE IN GOOD FAITH AND ARE BELIEVED TO BE ACCURATE AT THE DATE OF PREPARATION. RAYOVAC CORPORATION MAKES NO WARRANTY EXPRESSED OR IMPLIED.

NA = NOT APPLICABLE

ALKALINE BATTERIES - 03-01-2002.DOC