

PICK REQ: 0161312654

ITEM: 4WT07

MSDS: A4917

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 - A4917

Associated Grainger Items

6XT34, 1WC71, 1WC72, 1WC73, 1WC74, 8MX35, 2V421, 2V422, 2V532, 2V533, 2V534
4WT07, 4WT08, 4WT09, 4WT11, 5U076, 4LW07, 4LW13, 4LV99, 5U813, 3WA30, 3WA31
3WA32, 3WA33, 3WA34

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](http://www.rayovac.com).

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

4LW07 4LW13 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 -----

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

AUTO-IGNITION: NA

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

*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

REPORTING PROCEDURE:

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

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:

LIKE ANY SEALED CONTAINER, BATTERY CELLS MAY RUPTURE WHEN EXPOSED TO
EXCESSIVE HEAT; THIS COULD RESULT IN THE RELEASE OF FLAMMABLE OR CORROSIVE
MATERIALS.

-----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.

NA = NOT APPLICABLE

ALKALINE BATTERIES - 03-01-2002.DOC

WASTE DISPOSAL METHOD:

WHEN SHREDDERED 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](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-SHIPING:

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. SARA 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.