Revision Date: 01/03/2012 000000032773/Version: 1.4 Print Date: 06/04/2012

Page: 1/7



1. Identification of the substance/mixture and of the company/undertaking

Product name: KODAK LITHIUM METAL BATTERY KCR2025-1

Product code: 8079329

Supplier: EASTMAN KODAK COMPANY, 343 State Street, Rochester, New York 14650

For Emergency Health, Safety & Environmental Information, call (585) 722-5151 (USA)

For further information about this product, call (800) 242-2424.

Synonyms: None.

Product Use: Battery, For consumer and industrial use.

2. Hazards identification

CONTAINS: Manganese dioxide (1313-13-9), Organic Electrolyte (proprietary), Lithium (7439-93-2), Perchloric acid, lithium salt (7791-03-9)

WARNING!

MAY FLAME OR LEAK IF OPENED, SHORT CIRCUITED, RECHARGED, CONNECTED IMPROPERLY, OR EXPOSED TO FIRE OR HIGH TEMPERATURES HARMFUL IF SWALLOWED

VAPORS/FUMES FROM DAMAGED BATTERIES MAY CAUSE RESPIRATORY TRACT IRRITATION DAMAGED BATTERIES MAY CAUSE SKIN AND EYE BURNS

3. Composition/information on ingredients

Weight percent	Components - (CAS-No.)
15 - 40	Manganese dioxide (1313-13-9)
2 - 15	Organic Electrolyte (proprietary)
1 - 5	Lithium (7439-93-2)
< 1	Perchloric acid, lithium salt (7791-03-9)

Contains < 1 gram of lithium per cell.

Weight percent listed is based on approximate percent of the average weight of the battery.

The components in this section may only represent a hazard if the integrity of the battery is compromised.

4. First aid measures

The routine handling and use of intact, non-damaged batteries is not expected to result in situations that require first-aid measures. If battery is damaged due to opening, cutting, crushing, overheating, improper installation, exposure to fire or high temperatures, or recharging, battery contents may be released.

Revision Date: 01/03/2012 000000032773/Version: 1.4 Print Date: 06/04/2012

Page: 2/7



Inhalation: If vapours or fumes from vented or leaking battery are irritating to respiratory tract, move to fresh air. Get medical attention if symptoms occur.

Eyes: In case of contact with battery contents (liquid or metal), immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin: In case of contact with battery contents (liquid or metal), immediately remove metal fragments and flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. Get medical attention immediately.

Ingestion: All batteries may be harmful if swallowed. Call a physician or poison control center immediately for any actual or suspected ingestion. If swallowed, DO NOT induce vomiting. Batteries may lodge in the throat or digestive tract and fragment. If battery was leaking or was chewed, rinse mouth thoroughly with water.

Notes to physician:

Hazards: Battery ingestions should not be managed in the same way as other small metallic object ingestions, eg., coins. The position and integrity of the battery in the gastrointestinal tract should be assessed and monitored by x-ray. Leaking batteries may cause necrosis and tissue damage. Larger batteries or batteries that lodge in the gastrointestinal tract may have to be removed endoscopically or surgically.

5. Fire-fighting measures

Extinguishing Media: Flood with water. Do not use carbon dioxide or Halon type extinguisher.

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing. Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: oxides of lithium, oxides of manganese, Carbon oxides, (see also Hazardous Decomposition Products sections.)

Unusual Fire and Explosion Hazards: Fire or high temperatures may cause battery to flame or leak flammable and hazardous vapours. Damaged or opened batteries can result in rapid heating and the release of flammable and hazardous vapours.

6. Accidental release measures

Dispose of in accordance with local regulations (see Section 13. Disposal considerations).

For Large Spills: None should be needed.

7. Handling and storage

Personal precautions: If battery has been damaged, do not breathe fumes or vapours. Do not get battery contents in eyes, on skin, on clothing. Wash thoroughly after handling.

Revision Date: 01/03/2012 000000032773/Version: 1.4 Print Date: 06/04/2012

Page: 3/7



Prevention of Fire and Explosion: DO NOT DISASSEMBLE. Keep away from heat and flame. Do not short circuit. Avoid the use of old and new batteries or batteries of varying sizes and types in the same battery assembly. The batteries electrical characteristics and capabilities may vary and damage may result to the batteries or electrical equipment. DO NOT RECHARGE. Charging may result in electrolyte leakage, explosion and/or cause the battery to flame. Avoid reversing polarity within a device or a battery assembly. To do so may cause leakage, explosion, and/or flame.

Storage: Do not store in a manner that allows terminals to short circuit. Keep in a dry, cool place. Keep away from direct sunlight. Storage above 21°C (70°F) may affect product quality. Do not freeze. Keep away from water. Short circuiting may reduce battery service life. Extended short circuiting creates high temperatures in the battery. High temperatures can cause leakage, explosion, and/or flame. Keep away from incompatible substances (see Incompatibility section.)

8. Exposure controls/personal protection

Occupational exposure controls

Chemical Name Regulatory Value Type Value

List

OSHA

Manganese dioxide ACGIH time weighted average 0.2 mg/m3

Ceiling Limit Value

Expressed as Mn 5 mg/m3 Expressed as Mn

Ventilation: Supplemental ventilation may be needed in special circumstances to control fumes/vapours

to an acceptable level.

Respiratory protection: None should be needed.

Eye protection: When handling a damaged battery, wear safety glasses with side shields (or goggles).

Hand protection: When handling a damaged battery, wear impervious gloves.

9. Physical and chemical properties

Physical form: solid

Colour: not applicable

Odour: odourless

Specific gravity: not applicable

Vapour pressure: negligible

Vapour density: not applicable

Melting point/range: not applicable

Water solubility: insoluble

pH: not applicable

Revision Date: 01/03/2012 000000032773/Version: 1.4 Print Date: 06/04/2012

Page: 4/7



Flash point: not applicable

10. Stability and reactivity

Stability: Stable under normal conditions.

Incompatibility: Water.

Hazardous decomposition products: None under normal conditions of use.

Hazardous Polymerization: Hazardous polymerisation does not occur.

11. Toxicological information

Effects of Exposure

Inhalation: Intact battery: Expected to be a low hazard for recommended handling. Damaged battery: Harmful if inhaled. May cause irritation to the mucous membranes and upper respiratory tract.

Eyes: Intact battery: Expected to be a low hazard for recommended handling. Damaged battery: Contact with electrolyte (liquid) causes burns. Airborne dust/mist/vapor irritating. Contact with metal fragments may cause burns or mechanical injury.

Skin: Intact battery: Expected to be a low hazard for recommended handling. Damaged battery: Contact with electrolyte (liquid) causes burns. Contact with metal fragments may cause burns or mechanical injury. Harmful if absorbed through skin. Vapors or fumes may cause irritation.

Ingestion: All batteries may be harmful if swallowed. May cause burns of the gastrointestinal tract if swallowed.

12. Ecological information

This material is not expected to be harmful to aquatic life.

13. Disposal considerations

DO NOT INCINERATE or expose to fire. Discharge, treatment, or disposal may be subject to federal, state, commonwealth, provincial, or local laws.

14. Transport information

Kodak branded batteries may be shipped worldwide as non-dangerous goods dependent on the battery chemistry, size, construction, and packaging. For more information go to: www.kodak.com/go/batteryshipping.

For more transportation information, go to: www.kodak.com/go/ship.

15. Regulatory information

Revision Date: 01/03/2012 000000032773/Version: 1.4 Print Date: 06/04/2012

Page: 5/7



Notification status

Regulatory List	Notification status
TSCA	Not all listed
DSL	Not all listed
NDSL	None listed
EINECS	Not all listed
ELINCS	None listed
NLP	None listed
AICS	Not all listed
IECS	Not all listed
ENCS	Not all listed
ECI	Not all listed
NZIoC	Not all listed
PICCS	Not all listed

[&]quot;Not all listed" indicates one or more component is either not on the public Inventory or is subject to exemption requirements. If additional information is needed contact Kodak.

Other regulations

ther regulations			
American Conference of Governmental Industrial Hygienists (ACGIH):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		
International Agency for Research on Cancer (IARC):	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
U.S. National Toxicology Program (NTP):	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
U.S. Occupational Safety and Health Administration (OSHA):	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
California Prop. 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.		

Revision Date: 01/03/2012 000000032773/Version: 1.4 Print Date: 06/04/2012

Page: 6/7



U.S. - CERCLA/SARA (40 CFR § 302.4 Designation of hazardous substances):

No components of this product are subject to the SARA Section 302 (40 CFR 302.4) reporting requirements.

U.S. - CERCLA/SARA - Section 302 (40 CFR § 355

Appendices A and B - The List of Extremely Hazardous
Substances and Their Threshold Planning Quantities):

No components of this product are subject to the SARA Section 302 (40 CFR 355) reporting requirements.

U.S. - CERCLA/SARA - Section 313 (40 CFR § 372.65 Manganese dioxide Toxic Chemical Release Reporting):

U.S. - California - 8 CCR Section 339 - Director's List of Manganese dioxide Hazardous Substances:

U.S. - California - 8 CCR Section 5200-5220 - Specifically
Regulated Carcinogens:

No components found on the California
Specifically Regulated
Carcinogens List.

U.S. - California - 8 CCR Section 5203 Carcinogens:

No components found on the California Section 5203 Carcinogens List.

U.S. - California - 8 CCR Section 5209 Carcinogens:

No components found on the California Section 5209 Carcinogens List.

Lithium

111F) - Hazardous Substances Disclosure by Employers (a.k.a. Right to Know Law):U.S. - Minnesota Employee Right-to-Know (5206.0400, Manganese dioxide

U.S. - Massachusetts - General Law Chapter 111F (MGL c

Subpart 5. List of Hazardous Substances):

U.S. - New Jersey - Worker and Community Right to Know Manganese dioxide, Lithium

U.S. - Pennsylvania - Part XIII. Worker and Community
Right-to-Know Act (Chapter 323 Hazardous Substance

Manganese dioxide, Organic
Electrolyte, Lithium

List, Appendix A):

U.S. - Rhode Island - Title 28 Labor and Labor Relations
(Chapters 28-21 Hazardous Substance Right-to-Know

16. Other information

Act):

The data below reflects current legislative requirements whereas the product in your possession may carry a different version of the label depending on the date of manufacture.

US/Canadian Label Statements:

Act (N.J.S.A. 34:5A-1):

KODAK LITHIUM METAL BATTERY KCR2025-1

CONTAINS: Manganese dioxide (1313-13-9), Organic Electrolyte (not applicable), Lithium (7439-93-2), Perchloric acid, lithium salt (7791-03-9).

WARNING! MAY FLAME OR LEAK IF OPENED, SHORT CIRCUITED, RECHARGED, CONNECTED IMPROPERLY, OR EXPOSED TO FIRE OR HIGH TEMPERATURES. HARMFUL IF SWALLOWED.

Revision Date: 01/03/2012 000000032773/Version: 1.4 Print Date: 06/04/2012

Page: 7/7



VAPORS/FUMES FROM DAMAGED BATTERIES MAY CAUSE RESPIRATORY TRACT IRRITATION. DAMAGED BATTERIES MAY CAUSE SKIN AND EYE BURNS.

FIRST AID: If vapours or fumes from vented or leaking battery are irritating to respiratory tract, move to fresh air. Get medical attention if symptoms occur. In case of contact with battery contents (liquid or metal), immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately. In case of contact with battery contents (liquid or metal), immediately remove metal fragments and flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Destroy or thoroughly clean contaminated shoes. Get medical attention immediately. All batteries may be harmful if swallowed. Call a physician or poison control center immediately for any actual or suspected ingestion. If swallowed, DO NOT induce vomiting. Batteries may lodge in the throat or digestive tract and fragment. If battery was leaking or was chewed, rinse mouth thoroughly with water. Keep out of reach of children. Do not handle or use until safety precautions in Material Safety Data Sheet (MSDS) have been read and understood. Since emptied containers retain product residue, follow label warnings even after container is emptied. IN CASE OF FIRE: Flood with water. Do not use carbon dioxide or Halon type extinguisher. IN CASE OF SPILL: Dispose of in accordance with local regulations (see Section 13. Disposal considerations). For Large Spills: None should be needed. Additional Components Include: Steel casing (not applicable).

The information contained herein is furnished without warranty of any kind. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and the protection of the environment. The information relating to the working solution is for guidance purposes only, and is based on correct mixing and use of the product according to instructions.