KODAK Products

KODAK Batteries

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 25/JUL/2022 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Article
Product name : KODAK Alkaline Batteries

ULTRA PREMIUM - AAA, AA,
MAX Super Alkaline – AAA, AA, C, D, 9V, 11A, 23A, 27A, 28A, 357 (LR44/KA76);
XTRALIFE - AAA, AA, C, D and 9V

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Consumer battery intended for general public.
Uses advised against: No additional information available.

1.2.2. Uses advised against

No additional information available.

1.3. Details of the supplier of the safety data sheet

Strand International GmbH
Zum Schlahn 32
51709 Marienheide
Deutschland
T +44 (0) 1252 861000
sales@strandeurope.com

1.4. Emergency telephone number

Emergency number : For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night 1-800-424-9300 / +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

This product is an article within the definition of UK and EU REACH and CLP Regulations. Classification and labelling and the provision of an SDS is not required, but this document contains information and advice concerning safe handling of the product.

Chemical components are contained within the article to prevent release during normal transport, storage and use. Contact with chemical content is not foreseen during normal use.

2.2. Label elements

Pictogram	None.
Signal word	None.
Hazard statements	None.
Precautionary statements	None.

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2.3. Other hazards

Batteries are sealed so that exposure to contents is not foreseen during normal use. Exposure to fire, or mechanical or electrical stress may cause failure of the container and release of chemical components. Chemical components are hazardous. Chemical components cause eye damage and skin corrosion. Harmful if swallowed or inhaled. May cause damage to organs through prolonged or repeated exposure. Contact with hydrochloric acid may produce toxic gas (chlorine). May be corrosive to metals. Toxic to aquatic life with long lasting effects. This document gives advice on hazards relating to the chemical components of the article. The user is advised that additional hazards may be present from handling the product. See instructions for use.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Declarable components	Product identifier	%	Classification, supplemental hazards, ATE, M-factor, and SCL
Not applicable to article	N/A	N/A	N/A
Other components			
Manganese dioxide	CAS-No.: 1313-13-9 EC-No.: 215-202-6	≥ 18 – < 42.6	Acute Tox 4, H302; Acute Tox 4, H332; STOT RE 2, H373; EUH031
Zinc powder	CAS-No.: 7440-66-6 EC-No.: 231-175-3	≥ 8.9– < 17.4	Aquatic Acute 1, H400 (M =1); Aquatic Chronic 1, H410 (M =1)
Potassium hydroxide	CAS-No.: 1310-58-3 EC-No.: 215-181-3	≥ 3.5 – < 10.3	Met Corr 1, H290; Acute Tox 4, H302; Skin Corr 1A, H314; SCL: Skin Corr 1A, H314: C ≥ 5%; Skin Corr 1B, H314: 2 ≤ C < 5%
Graphite	CAS-No.: 7782-42-5 EC-No.: 231-955-3	≥ 1.5 – < 4.7	N/A
Steel	CAS-No.: 7439-89-6	≥ 15.7 – < 21.5	N/A
Water	CAS-No.: 7732-18-5	≥ 5 – < 12.2	N/A
Brass	CAS-No.: 12597-71-6	≥ 0.8 – < 3	N/A
Ni-plating	CAS-No.: 7440-02-0	≥ 0.2 – < 0.3	N/A
Nylon-66	CAS-No.: 32131-17-2	≥ 0.9 – < 1.6	N/A
Fiber	CAS-No.: None	≥ 0.6 – < 0.9	N/A
PBT plastic	CAS-No.: 26062-94-2	≥ 4.5 – < 5	N/A
Iron	CAS-No.: 7439-89-6 EC-No.: 231-096-4	≥ 13.5 – < 66.9	N/A
PVC	CAS-No.: 9002-86-2	≥ 0.9 – < 1	N/A

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Product as supplied not inhalable. For inhalation of chemical contents, remove exposed person to fresh air and keep warm and at rest in a position comfortable for breathing. For difficulties in breathing, respiratory irritation, or other symptoms, call a poison centre or doctor.
Skin	Product as supplied not harmful to skin. For skin contact with chemicals, wash affected area with soap and water. Call a doctor if irritation, rash, or other symptoms occur.
Eye	Product as supplied not harmful to eyes. In case of contact of chemicals in eyes, rinse with room-temperature water or eyewash for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a doctor if irritation persists.
Ingestion	If battery is swallowed, get immediate medical attention. If chemicals are in mouth, rinse mouth thoroughly with water and spit out rinsings. Water may be given to drink if chemicals have been swallowed. Get prompt medical attention. Do not induce vomiting, unless instructed by medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

A chemical component causes eye damage and skin corrosion. Expected to corrosive if swallowed or if inhaled. May cause damage to organs (eg bones and teeth) through prolonged or repeated exposure.

4.3. Indication of any immediate medical attention and special treatment needed

If battery is swallowed, get immediate medical attention. A chemical within the product is strongly alkaline, and dilution with copious water or careful neutralisation with dilute or weak acid will reduce its hazardous properties.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Any standard chemical fire extinguisher suited to the size of the fire.
Unsuitable extinguishing media	:	Not available

5.2. Special hazards arising from the substance or mixture

Exposure to fire may result in the release of harmful and corrosive dust and vapours.

5.3. Advice for firefighters

Remove product from fire or cool containers with water spray. Firefighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Product articles may be collected if undamaged.

For chemical spills of the contents, wear personal protection. Ventilate area and do not breathe vapours. Remove or extinguish sources of ignition.

Follow prescribed procedures for responding to spills and reporting to authorities.

6.2. Environmental precautions

Prevent product from entering water courses or drainage system.

6.3. Methods and material for containment and cleaning up

Clean up spill as soon as possible. Do not flush to sewer.

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For small quantities, wipe off with damp cloth or paper.

For larger quantities, absorb with inert material and carefully sweep up or collect using vacuum cleaner.

Wash contaminated surfaces with water and detergent. Collect waste, washings, and contaminated materials for safe disposal.

6.4. Reference to other sections

For recommended personal protective equipment, see Section 8.

For disposal considerations, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid damaging the product. Do not immerse in water or other liquid. Keep away from fire and strong heat. Do not disassemble the product.

Exposure to fire, or mechanical or electrical stress may cause failure of the container and release of chemical components.

Avoid skin and eye contact with the chemical content of the product, and inhalation of vapours. Ventilate area if exposure to chemicals is possible.

See Section 8 for personal protection.

Wash hands after contact with chemicals.

The user is advised that additional hazards may be present from handling the product. See instructions for use.

7.2. Conditions for safe storage, including any incompatibilities

Store product in a cool, dry well-ventilated place.

7.3. Specific end use(s)

Consumer battery.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

EU limit values	Manganese and inorganic compounds (as Mn): IOELV: 8 h TWA 0.2 mg/m3 (inhalable fraction); 0.05 mg/m3 (respirable fraction).
National limit values	UK: Manganese and inorganic compounds (as Mn): WEL: 8 h TWA 0.2 mg/m3 (inhalable fraction); 0.05 mg/m3 (respirable fraction).

8.1.2. Recommended monitoring procedures

No additional information available.

8.1.3. Air contaminants formed

No additional information available.

8.1.4. DNEL and PNEC

Manganese dioxide: workers, long-term exposure, systemic effects, inhalation, 0.2 mg/m3; workers, long-term exposure, systemic effects, dermal, 0.004 mg/kg/d.

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Potassium hydroxide: workers, long-term exposure, local effects, inhalation, 1 mg/m3.

Manganese dioxide: PNECs: freshwater, 0.0 mg/L; freshwater, intermittent release, 0.001 mg/L; sewage treatment plant, 100 mg/L; freshwater sediment, 0.037 mg/kg dry sediment; soil, 0.028 mg/kg dry soil.

Zinc: PNECs: freshwater, 0.014 mg/L; sewage treatment plant, 0.10 mg/L; freshwater sediment, 147 mg/kg dry sediment; soil, 83.1 mg/kg dry soil.

8.1.5. Control banding

No additional information available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No special measures required for battery. For small or incidental chemical exposures, good general ventilation (3 to 5 air exchanges per hour) is recommended. For chemical processing, local exhaust ventilation or use in a closed system is required.

8.2.2. Personal protection equipment

The need for personal protective equipment should be based on a workplace risk assessment for the particular use.
For contact with chemicals, wear chemical-resistant gloves and eye protection. Where more extensive contact may occur, wear protective clothing (eg apron, overalls). PPE should conform to British (EN) standards, eg gloves EN 420 and 374; eye protection EN 166, or other national equivalent. Consult PPE manufacturers concerning breakthrough times applicable to your particular use.

Personal protective equipment symbol(s):

8.2.3. Environmental exposure controls

No additional information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid battery
Colour	:	Mixed
Odour	:	Odourless.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Non flammable.
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	Not applicable to solid
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	Not applicable to solid
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	Not available

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Relative vapour density at 20°C : Not available
Particle characteristics : Not available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

Hazardous chemicals may leak from damaged product.

10.4. Conditions to avoid

Avoid damaging product with mechanical or electrical stress. Do not heat during use or storage. Strong heating may lead to leak, fire or explosion. Avoid short circuits. Do not mix with other battery types.

10.5. Incompatible materials

Contents of the battery are strongly alkaline and may cause corrosion to metals. Avoid immersion of the battery in water or other liquid. Contact of manganese dioxide with hydrochloric acid may produce toxic gas (chlorine).

10.6. Hazardous decomposition products

Contents of the battery are strongly alkaline and may cause corrosion to skin and eye.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity : Not applicable to battery article. If swallowed, get immediate medical attention.
Manganese dioxide: harmful if swallowed or inhaled.
Potassium hydroxide: expected to corrosive if swallowed, in contact with skin, or if inhaled.

Skin corrosion/irritation : Not applicable to battery article.
Potassium hydroxide: causes corrosion of skin.

Serious eye damage/irritation : Not applicable to battery article.
Potassium hydroxide: causes serious eye damage..

Respiratory or skin sensitisation : Not applicable to battery article.
No chemical component has been classified for these effects.

Germ cell mutagenicity : Not applicable to battery article.
No chemical component has been classified with this effect.

Carcinogenicity : Not applicable to battery article.
No chemical component has been classified with this effect.

Reproductive toxicity : Not applicable to battery article.
No chemical component has been classified with this effect.

STOT-single exposure : Not applicable to battery article.
No chemical component has been classified with this effect.

STOT-repeated exposure : Not applicable to battery article.
Manganese dioxide: may cause damage to organs through prolonged or repeated exposure, with particular effects on brain through inhalation.

Aspiration hazard : Not applicable to battery article.

11.2. Information on other hazards

No ingredient has been classified with endocrine disrupting properties relevant for humans

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SECTION 12: Ecological information

12.1. Toxicity

Not applicable to battery article.

Zinc powder: very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Consumer battery article will persist in the environment.

12.3. Bioaccumulative potential

Not applicable to consumer battery article. No relevant chemical component has been identified as bioaccumulative.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No chemical component has been identified with these effects.

12.6. Endocrine disrupting properties

No chemical component has been classified with endocrine disrupting properties relevant for the environment.

12.7. Other adverse effects

No chemical component has been identified as hazardous to the ozone layer.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The usual method of disposal of consumer batteries is via a recycling site. Disposal via landfill, drains, or incineration is not recommended.

Disposal must be in accordance with current national and local regulations, eg UK Waste Electrical and Electronic Equipment recycling (WEEE Regulations 2006) (EU Directive 2012/19/EU) (as amended).

General EU requirements for waste chemicals are given in Directive 2008/98/EC

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
14.2 UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2 UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3 Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4 Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5 Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Alkaline batteries for all modes of transportation (ground, air, or water) must be packaged in a strong outer packaging that prevents short circuits and spillage of contents. For air transport, see IATA/ICAO Special Provision A123.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

UK: Control of Substances Hazardous to Health Regulations 2002 (COSHH), as amended.
COSHH Essentials: Easy Steps to Control Chemicals; HSE Books 2003 (also available on the HSE web site).
WEEE Regulations 2013; Government Guidance Notes; March 2014.

15.2. Chemical safety assessment

Not available

SECTION 16: Other information

Revisions	This SDS is the first version (1.0) in EU format (Regulation 2020/878), using classification according to the CLP Regulation.
Abbreviations	ATE, acute toxicity estimate; DMEL, derived minimum effect level; DNEL, derived no-effect level; IOELV, EU indicative occupational exposure limit value; PBT, persistent, bioaccumulative, and toxic; PNEC, predicted no-effect concentration; STOT RE, specific target organ toxicity, repeated exposure; STOT SE, specific target organ toxicity, single exposure; TWA, time-weighted average; vPvB, very persistent, very bioaccumulative; WEL, UK workplace exposure limit.
References	Search for chemicals; available at the European Chemicals Agency (ECHA) website: http://echa.europa.eu/. GESTIS International Limit Values; Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA); http://www.dguv.de.
Basis of classification	Classification is not applicable to an article.
List of hazard statements	H290: May be corrosive to metals; H302: Harmful if swallowed; H314: Causes severe skin burns and eye damage; H373: May cause damage to organs through prolonged or repeated exposure; H400: Very toxic to aquatic life; H410: Very toxic to aquatic life with long lasting effects; EUH031: Contact with acids liberates toxic gas.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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