

MATERIAL SAFETY DATA SHEET

1. COMPANY INFORMATION

COMPANY NAME: ENIX ENERGIES	TEL: 0825886511
ADD.: 27 rue des Glairaux – BP246 – 38522 Saint Egrève Cedex	
PRODUCT NAME: Alkaline Batteries (AA,AAA,D,C & 9V size)	Date: 2021.01.01

2. DISSERVE IDENTIFICATIOND ATUM:

HEALTH DISSERVE DOMINO OFFECT: The hazardous materials 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 leak is exposed to high temperatures, is mechanically, physically or electrically abused. Contains concentrated (~40%) potassium hydroxide, which is caustic.
CIRCUMSTANCE IMPACT: Decompose and pollute water and soil.
INVASIVE WAYSI: Ingestion
SPECIALTIES DISSERVE: Not applicable
PHYSICAL HAZARD CLASSIFICATION : No

3. COMPOSITION, INFORMATION ON INGREDIENTS

ITEM	MATTER APPELLATION	INGREDIENTS NAME	CONTENT %	CAS NO.
1	Can	Fe	21.0-25.0	12597-69-2
2	Manganese Dioxide	MnO ₂	35.0-40.0	1313-13-9
3	Zinc Powder	Zn	14.0-16.0	7440-66-6
4	Graphite	C	2.8-3.6	7440-44-0
5	Potassium Hydroxide	KOH	5.0-6.5	1310-58-3
6	Pure Water	H ₂ O	9.0-10.0	7732-18-5
7	Current Collector	Cu	1.5-2.5	7440-50-8
8	Negative Cap	Fe	2.2-3.2	12597-69-2
9	Jacket	PVC	0.8-1.5	9002-86-2
10	Top Seal	NYLON	1.2-1.9	32131-17-2

4. HEALTH HAZARDS:

ROUTES OF ENTRY: Not anticipated. Respiratory (and eye) irritation may occur if fumes are released due to heat or an abundance of leaking batteries.
SIGN & SYMPTOMS OF OVEREXPOSURE: Skin or eye irritation, including caustic/burnable injury may occur following exposure to a leaking battery.
MEDICAL CONDITIONS AGCRAVATED BYEXPOSURE: The hazardous materials 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 leak is exposed to high temperatures, is mechanically, physically or electrically abused. Contains concentrated (~40%) potassium hydroxide, which is caustic.

EMERGENCY & FIRST AID PROCEDURES: Caustic potassium hydroxide may be released from leaking or ruptured batteries. Avoid eye or skin contact and inhalation of vapors. Increase ventilation. Clean-up personnel should wear appropriate protective gear. Washing with plentiful clean water right now and to see doctor if contact the lye.

5. FIRE&EXPLOSION DATA

When firing, using sand, water is not suitable.

6. ACCIDENTAL RELEASE MEASURES

If battery releasing in valuables, first using clean gauze wipe, then using alcohol cleaning. If a mass of battery releasing, using water cleaning.

7. SADETY DISPOSITION AND DEPOSIT:

Avoid package disrepair and strike, not long time in high temperature.

Keep in normal temperature.

8. SPECIAL PROTECTION INFORMATJON/CONTROL MEASURES

OTHER PROTECTIVE EQUIPMENT: None under normal use conditions. When handling leaking batteries, wear safety glasses and use neoprene, rubber or latex gloves. Keep batteries away from small children.

OPERATION PRECAUTIONS&STORAGE RECOLATIONS: Store at room temperature. Avoid mechanical or electrical abuse. Batteries may explode, exploding or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. Replace all batteries in equipment at the same time. Do not carry batteries loose in pocket or bag.

HYGIENE MEASURES: No

9. PHYSICAL AND CHEMICAL CHARACTERISTICS

APPEARANCE: Solid

ODOUR: Inodorous

COLOUR: Chromatic outside contents dark material inside

DENSITY: 2.7-3.2 g/cm³

CONDITIONS TO AVOID: Do not heat, crush, disassemble, short circuit, recharge.

HAZARDOUS DECOMPOSITION: Zinc and manganese dioxide, hydrogen gas, potassium hydroxide.

HAZARDOUS POL YMERIEATION: Contents incompatible with strong oxidizing agents.

10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: Stable

11. TOXICITY DATUM:

PART FEEDBACK: Not applicable

URGENT TOXICITY : Not applicable

HYPERSUSCEPTIB ILITY FEEDBACK: Not applicable

SLOW TOXICITY OR URGENT TOXICITY: Not applicable

SPECIALTIES DOMINO EFFECT: Not applicable

12. ZOOLOGY DATUM:

Decompose and pollute water and soil.

13. Caution should be taken when dealing with matters:

The battery should not be discarded.

14. CONSIGNMENT DATUM:

INTERNATIONAL CONSIGNMENT PRESCRIBE:
Alkaline Batteries are not listed as dangerous goods under the International Civil Aviation Organization (IACO) , International Air Transportation (IATA) Dangerous Goods Regulation, 61th edition 2020 and US department of transportation (DOT) regulation, 49 CFR. These batteries are not subject to dangerous goods regulations provided they meet the requirements contained in the following special provisions; Special provision A123 in the ICAO Technical instructions and IATA DGR, 61th edition 2020 and special provision 130 of the DOT. By ocean the international Marine Organization (IMO), 2018 edition does not regulate these batteries.

CHINA CONSIGNMENT PRESCRIBE: NO

SPECIALTIES CONSIGNMENT AND PRESCRIBE: NO

15. MANAGEMENT INFORMATION:

Chemical Safety Management of Dangerous Goods Ordinance (February 17, 1987 issued by the State Council)
Chemical Safety Management of Dangerous Goods Regulations Ordinance (of labor made [1992] No. 677)

16. OTHER INFORMATION:

References: People's Republic of China national standard part of the original battery No. 5: aqueous electrolyte battery of safety requirements
Chemical Safety Management of Dangerous Goods Regulations
Chemical Safety Management of Dangerous Goods Regulations Ordinance
Guidance Department: Technical Division