Material Safety Data Sheet

The Material Safety Date Sheet provides relevant battery information to retailers, consumers and other users requesting a GHS-compliant SDS. The batteries are exempt articles from GHS SDS classification criteria. The GHS criteria is not designed or intended to be used to classify the physical, health and environmental hazards of an article. Branded consumer batteries are defined as electro-technical devices. The design, safety, manufacture, and qualification of COAST branded consumer batteries follow ANSI and IEC battery standards.

Section 1-Identification

● Product Name: COAST Alkaline Batteries	IEC Designation: LR6, LR03
● Chemical System: Alkaline zinc-manganese dioxide batteries	Sizes: AA, AAA
● Company: Coast Cutlery Company	Telephone Numbers: +1-800-426-5858
● Address: 8033 NE Holman Street, Portland, OR 97218	Website: www.coastportland.com
● Document Number: EP-ALK	Date of preparation: January 2, 2020
Image	

Section 2-Composition/Information on Ingredients

Ingredient	CAS#	Approximate Content(weight%)	
		LR6	LR03
Manganese Dioxide (MnO_2)	1313-13-9	42.6	40.9
Zinc (Zn)	7440-66-6	16.1	14.8
Water (H_2O)	7732-18-5	12.2	11.7
Potassium Hydroxide (KOH)	1310-58-3	5.2	4.8
Graphite	7782-42-5	3.0	1.7
Brass	12597-71-6	2.4	3.0
Steel	7439-89-6	15.7	20.4
Ni-plating	7440-02-0	0.3	0.3
Nylon-66	32131-17-2	1.6	1.5
Fiber	None	0.9	0.9

IMPORTANT NOTE: The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

Section 3-Hazards Identification

The batteries are exempt articles and are not subject to the 29 CFR 1910.1200 OSHA requirements, Canadian WHMIS requirements or GHS requirements.

Emergency Overview

OSHA Hazards-not applicable

Target Organs-not applicable

GHS Classification-not applicable

GHS Label Elements, including precautionary Statement-not applicable

Pictogram-not applicable

Signal words-not applicable

Hazard statements-not applicable

Precautionary statements-not applicable

Section 4-First Aid Measures

Ingestion: Do not induce vomiting or give food or drink. Seek medical attention immediately.

The following instructions apply to exposure of internal components.

Inhalation: Fumes can cause respiratory irritation. Remove to fresh air and consult a physician.

Skin: Immediately flush skin with plenty of water. If itch or irritation by chemical burn persists, consult a physician.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician immediately

Swallowing: If swallowing a battery, consult a physician immediately. If contents come into mouth, immediately rinse by plenty of water and consult a physician.

Section 5-Fire Fighting Measures

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.
Fire fighters should wear self-contained breathing apparatus.

Section 6-Accidental Release Measures

Steps to be taken in case material is released or spilled.
Batteries that are leakage should be handled with rubber gloves.
Avoid direct contact with electrolyte.
Wear protective clothing and a positive pressure Self-Contained Breathing Apparatus (SCBA).

Section 7-Handling and Storage

1) Handling

Avoid mechanical and electrical abuse. Do not short circuit or install incorrectly. Batteries may rupture or vent if disassembled, crushed, recharged or exposed to high temperatures. Install batteries in accordance with equipment instructions. The label acts as an electrical insulation for the battery can. Damage the label can increase the potential for a short circuit. Do not install backwards, charge, put in fire or mix with other battery types as it may explode or leak causing injury. Replace all batteries at the same time.

2) Storage

Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

Section 8-Exposure Controls, Personal Protection

No engineering measure is necessary during normal use. If internal cell materials are leaked, the information in Section 4 & Section 6 will be useful.

Section 9-Physical/Chemical Characteristics

Nominal Voltage: 1.5V

Section 10-Stability and Reactivity

Stability	Stable
Hazardous polymerization	Will not occur
Condition to avoid	Avoid electrical shorting, puncturing or deforming
Hazardous Decomposition products	Not applicable

Section 11-Toxicological Information

Not Applicable

Section 12-Ecological Information

Consumers should dispose of discharged batteries through waste disposal services or legitimate

collection outlets. Those collecting batteries should follow the national or local regulations. Partially discharged damaged batteries can overheat and cause fires in the presence of other combustible materials.

Section 13-Disposal Condition

The battery may be regulated by national or local regulation. Please follow the instructions of proper regulation. As electric capacity is left in a discarded battery and it comes into contact with other metals, it could lead to distortion, leakage, overheating, or explosion, so make sure to cover the (+) and (-) terminals with friction tape or some other insulator before disposal.

Section 14-Transportation Information

In general, all batteries in all forms of transportation (ground, air, or ocean) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in “strong outer packaging” that prevents spillage of contents. All original packaging for COAST alkaline batteries has been designed to be compliant with these regulatory concerns.

Alkaline batteries (sometimes referred to as “Dry cell” batteries) are not listed as dangerous goods under the ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road, the IMDG 2018 Edition International Maritime Dangerous Goods Code (include Amendment 39-18), UN Dangerous Good Regulations, IATA Dangerous Goods Regulations, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirements contained in the following special provisions.

Regulatory Body	Special Provisions
ADR	Not regulated
IMDG	Not regulated
UN	Not regulated
US DOT	49 CFR 172.102 Provision 130
IATA	A123
ICAO	Not regulated

All COAST alkaline batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, the 2020 IATA (61st edition) Dangerous Goods Regulations and ICAO Technical Instructions require the words “not restricted” and the Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

Section 15-Regulatory Information

USA EPA Mercury Containing & Rechargeable Battery Management Act of 1996: No mercury added
EU Battery Directive 2006/66/EC Amended 2013/56/EU: COAST batteries are compliant with all aspects of the Directive.

Section 16-Other Information

This Material Safety Data Sheet is provided information on the Coast battery systems. Batteries are articles as defined under the GHS and exempt from GHS classification criteria (Section 1.3.2.1.1 of the GHS). The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, COAST CUTLERY COMPANY MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.