

Article Information Sheet

Fiche d'information Article

Product name: carbon zinc battery

Printing date: 2021.12.16 Nom du produit: pile au carbone-zinc

Date d'impression: 2021.12.16

Article Information Sheet (AIS)

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS - compliant SDS. Articles, such as batteries, are exempt 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 Energizer branded consumer batteries follow ANSI and IEC battery standards.

1. DOCUMENT INFORMATION

Product name	Carbon Zinc-Manganese Dioxide
Model	R6P (AA)
Issue Date	2021-12-16

2. COMPANY INFORMATION

Company name(China)	Guangdong Liwang New Energy Co.,Ltd.
Address:	No.10, Liantang Jiao Road Two,Tangxia Town,Dongguan City,Guangdong Province,P.R.China
E-mail:	qa1@liwangbattery.com
Telephone:	+86-13902600527

3. ARTICLE INFORMATION

Description	Carbon Zinc-Manganese Dioxide Battery
Use	carbon zinc battery
Brand	----
Image	----

Article Feuille d'information (AIS)

Cette fiche d'information Article (AIS) fournit des informations sur la batterie correspondant aux détaillants, aux consommateurs, aux OEM et aux autres utilisateurs qui demandent un SDS SGH-conforme. Les articles, tels que les piles, sont exemptés de critères de classification SGH SDS. Les critères du SGH ne sont pas conçus ou destinés à être utilisés pour classer les risques physiques, la santé et l'environnement d'un article. batteries de consommation de marque sont définis comme des dispositifs électro-technique. La conception, la sécurité, la fabrication, et la qualification des batteries de consommation de marque Energizer sont conformes aux normes de la batterie ANSI et IEC.

1. DOCUMENT D'INFORMATION

Produit Nom	Carbone Zinc-Dioxyde de Manganèse
Modèle	R6P (AA)
Date d'émission	2021-12-16

2. INFORMATIONS SUR LA SOCIÉTÉ

Nom de l'entreprise (Chine)	Guangdong Liwang New Energy Co.,Ltd.
Adresse:	No.10, Liantang Jiao Road Two,Tangxia Town,Dongguan City,Guangdong Province,P.R.China
Email:	qa1@liwangbattery.com
Téléphone:	+86-13902600527

3. ARTICLE D'INFORMATION

La description	Carbone Zinc-Dioxyde de Manganèse
Utilisation	pile au carbone-zinc
Marque	----
Image	----

Article Information Sheet

Fiche d'information Article

Product name: carbon zinc battery

Printing date: 2021.12.16 Nom du produit: pile au carbone-zinc

Date d'impression: 2021.12.16

4. ARTICLE CONSTRUCTION

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

Chemical name	CAS No.	Concentration(%)
Manganese dioxide	1313-13-9	37
Zinc	7440-66-6	33
Graphite	7782-42-5	10
Water	7732-18-5	14.2
Ammonium chloride	12125-02-9	0.6
Iron	7439-89-6	2
Polypropylene	9003-07-0	2
Zinc chloride	7646-85-7	1.2

5. HEALTH AND SAFETY

- Ingestion:** Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
- Inhalation:** Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get medical attention immediately if symptoms occur.
- Skin contact:** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction.
- Eye contact:** Rinse immediately with plenty of water, also under the

4. ARTICLE CONSTRUCTION

REMARQUE IMPORTANTE: La batterie ne doit pas être ouvert ou brûlé. L'exposition aux ingrédients contenus dans leurs produits ou de combustion pourrait être nocif.

Nom chimique	N ° CAS.	Concentration(%)
Dioxyde de manganèse	1313-13-9	37
Zinc	7440-66-6	33
Graphite	7782-42-5	10
L'eau	7732-18-5	14.2
Chlorure d'ammonium	12125-02-9	0.6
Fer	7439-89-6	2
Polypropylène	9003-07-0	2
Chlorure de zinc	7646-85-7	1.2

5. SANTÉ ET SÉCURITÉ

- Ingestion:** Ne pas faire vomir. Se rincer la bouche et boire beaucoup d'eau. Ne portez rien à la bouche d'une personne inconsciente. Appeler un centre de contrôle médecin ou de poison immédiatement.
- Inhalation:** À l'air frais. Si la respiration est arrêtée, pratiquer la respiration artificielle. Consulter un médecin immédiatement. Ne pas utiliser le bouche-à-bouche si la victime a ingéré ou inhalé la substance; pratiquer la respiration artificielle à l'aide d'un masque de poche muni d'une valve à une voie ou d'un autre appareil médical approprié. Si la respiration est difficile, (du personnel qualifié devrait) donner de l'oxygène. œdème pulmonaire retardé peut se produire. Consulter un médecin si des symptômes apparaissent.

Article Information Sheet

Fiche d'information Article

Product name: carbon zinc battery

Printing date: 2021.12.16 Nom du produit: pile au carbone-zinc

Date d'impression: 2021.12.16

eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

6. FIRE HAZARD & FIREFIGHTING

Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.
Special hazards arising from the chemical	In case of fire where lithium batteries are present, flood area with water or smother with a Class D fire extinguishant appropriate for lithium metal, such as Lith-X. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out. Virtually all fires involving lithium batteries can be controlled by flooding with water. However, the contents of the battery will react with water and form hydrogen gas. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended. A smothering agent will extinguish burning lithium batteries.
Precautions for fire-fighters	Emergency Responders should wear self-contained breathing apparatus. Burning lithium manganese dioxide batteries produce toxic and corrosive

Contact avec la peau: Laver immédiatement avec du savon et beaucoup d'eau tout en enlevant les vêtements contaminés et les chaussures. Une attention médicale immédiate est nécessaire. Peut provoquer une réaction allergique cutanée.

Lentilles de contact: Rincer immédiatement et abondamment avec de l'eau, y compris sous les paupières, pendant au moins 15 minutes. Gardez l'œil ouvert pendant le rinçage. Ne pas frotter les zones touchées. lentilles de contact Retirer, si elle est présente et facile à faire. Continuer à rincer. Consulter un / des conseils médicaux immédiats.

Auto-protection du secouriste: Veiller à ce que le personnel médical sont au courant de la matière (s) impliqués, prendre des précautions pour se protéger et prévenir la propagation de la contamination. Éviter tout contact avec la peau, les yeux ou les vêtements. Éviter tout contact direct avec la peau. Utilisez barrière pour donner la respiration artificielle bouche-à-bouche. Utiliser un équipement de protection individuel requis. Porter des vêtements de protection individuelle (voir la section 8).

6. RISQUE D'INCENDIE & POMPIERS

Risque d'incendie	Les piles peuvent se rompre ou fuir si elle est impliquée dans un incendie.
Moyens d'extinction	Utilisez tous les moyens d'extinction appropriés pour la région environnante.

Article Information Sheet

Fiche d'information Article

Product name: carbon zinc battery

Printing date: 2021.12.16

Nom du produit: pile au carbone-zinc

Date d'impression: 2021.12.16

lithium hydroxide fumes.

7. HANDLING AND STORAGE

Storage	Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life. In locations that handle large quantities of lithium batteries, such as warehouses, lithium batteries should be isolated from unnecessary combustibles.
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.
Spills of Large Quantities Batteries (unpacked)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.

8. DISPOSAL CONSIDERATIONS

Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU,

Dangers particuliers résultant de la substance chimique	En cas d'incendie où des batteries au lithium sont présents, zone inondable avec de l'eau ou avec un ÉTOUFFER approprié incendie Classe d'extinction D pour le métal de lithium, comme Lith-X. L'eau ne peut pas éteindre les piles qui brûlent mais refroidir les batteries adjacentes et contrôler la propagation du feu. Les piles qui brûlent va se brûler. Pratiquement tous les feux impliquant des piles au lithium peuvent être contrôlés par les inondations avec de l'eau. Cependant, le contenu de la batterie réagiront avec l'eau et sous forme d'hydrogène gazeux. Dans un espace confiné, le gaz d'hydrogène peut former un mélange explosif. Dans cette situation, les agents étouffants sont recommandés. Un agent étouffant éteindra la combustion des batteries au lithium.
Précautions à prendre pour les pompiers	Équipe d'intervention doivent porter un appareil respiratoire autonome. La combustion des piles de dioxyde de manganèse au lithium produisent toxique et corrosif fumées lithium hydroxyde.

7. MANIPULATION ET STOCKAGE

Espace de rangement	Conserver dans un endroit frais et bien ventilé. Les températures élevées peuvent entraîner dans la vie de la batterie raccourcie. Dans les endroits qui traitent de grandes quantités de piles au lithium, tels que les entrepôts, les batteries au lithium doivent être isolés à partir de combustibles inutiles.
Manipulation	Éviter les abus mécaniques et électriques. Ne pas court-circuiter ou installer correctement. Les piles peuvent se rompre ou de ventilation si elles sont démontées, écrasées, rechargées ou exposé à une forte températures. Installez les piles conformément aux instructions du fabricant.

Article Information Sheet

Fiche d'information Article

Product name: carbon zinc battery

Printing date: 2021.12.16 Nom du produit: pile au carbone-zinc

Date d'impression: 2021.12.16

where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

9. Transport information

DOT Proper Shipping Name	NOT REGULATED NON REGULATED
Hazard Class	N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

10. REGULATORY INFORMATION

(a) Safety, health and environmental regulations specific for the product in question

CAS No.	USA TSCA	EU EINECS	Japan ENCS	Korea ECL	China IECSC	Canada DSL
1313-13-9	Listed	Listed	Listed	Listed	Listed	Listed
7440-66-6	Listed	Listed	Not listed	Listed	Listed	Listed
7782-42-5	Not listed	Listed	Listed	Listed	Listed	Not listed
7732-18-5	Listed	Listed	Listed	Listed	Listed	Listed
12125-02-9	Not listed	Listed	Listed	Listed	Listed	Not listed
7439-89-6	Not listed	Listed	Listed	Listed	Listed	Not listed

Déversements de grandes quantités de Batteries (non emballés) Informer le personnel de déversement de grands déversements. Irritant et vapeurs inflammables peuvent être libérés de fuites ou les piles endommagées. piles écartez pour arrêter les courts-circuits. éliminer tous les sources d'allumage. Évacuer la zone et laisser les vapeurs se dissipent. Le personnel de nettoyage devrait porter des EPI appropriés pour éviter les yeux et contact avec la peau et l'inhalation des vapeurs ou fumées. Augmenter la ventilation. batteries cueillent et les placer dans un récipient approprié pour disposition. Retirez tout liquide déversé avec une matière absorbante et contiennent pour l'élimination.

8. CONSIDERATIONS RELATIVES À L'ÉLIMINATION

Jetez les piles usagées (ou excédent) conformément aux règlements fédéraux, provinciaux / provinciaux et locaux. Ne pas accumuler de grandes quantités de piles usagées pour l'élimination comme accumulations pourraient provoquer un court-circuit. Ne pas incinérer. Dans les pays, comme le Canada et l'Union européenne, où il existe des règlements pour la collecte et le recyclage des batteries, les consommateurs devraient disposer de leurs piles usagées dans le réseau de collecte dans les dépôts municipaux et les détaillants. Ils ne doivent pas jeter les piles avec les ordures ménagères.

9. Informations de transport

POINT NON RÉGLEMENTÉ
Nom d'expédition NON RÉGLEMENTÉ
Classe de danger N / A
TMD Non réglementé
MEX Non réglementé
OACI Non réglementé

Article Information Sheet

Fiche d'information Article

Product name: carbon zinc battery

Printing date: 2021.12.16

Nom du produit: pile au carbone-zinc

Date d'impression: 2021.12.16

9003-07-0	Listed	Not listed	Listed	Listed	Listed	Listed
7646-85-7	Listed	Listed	Listed	Listed	Listed	Listed

11. OTHER INFORMATION

TSCA:	Toxic Substances Control Act, The American chemical inventory.
DSL	Domestic Substances List
EINECS:	European Inventory of Existing Commercial chemical Substances
ENCS	Japanese Existing and New Chemical Substances
ECL:	Existing Chemicals List, the Korean chemical inventory.
IECSC:	Inventory of existing chemical substances in China.

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this AIS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This AIS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this AIS should make independent judgment for the applicability of this AIS under special conditions. In these special cases, we do not assume responsibility for the damage.

----- End of the AIS -----

IATA Non réglementé

Nom d'expédition NON RÉGLEMENTÉ

Classe de danger N / A

IMDG / IMO Non réglementé

Classe de danger N / A

Polluant marin Le produit est un polluant marin selon les critères fixés par IMDG / IMO

DÉBARRASSER Non réglementé

ADR Non réglementé

ADN Non réglementé

10. INFORMATIONS RÉGLEMENTAIRES

(A) la sécurité, de santé et de l'environnement spécifique pour le produit en question

N ° CAS.	Etats-Unis TSCA	UE Einecs	Japon ENCS	Corée ECL	Chine IECSC	Canada DSL
1313-13-9	Listed	Listed	Listed	Listed	Listed	Listed
7440-66-6	Listed	Listed	Non listé	Listed	Listed	Listed
7782-42-5	Non listé	Listed	Listed	Listed	Listed	Non listé
7732-18-5	Listed	Listed	Listed	Listed	Listed	Listed
12125-02-9	Non listé	Listed	Listed	Listed	Listed	Non listé
7439-89-6	Non listé	Listed	Listed	Listed	Listed	Non listé
9003-07-0	Listed	Non listé	Listed	Listed	Listed	Listed
7646-85-7	Listed	Listed	Listed	Listed	Listed	Listed

11. LES AUTRES INFORMATIONS

TSCA:	Toxic Substances Control Act, l'inventaire chimique américain.
DSL	Liste intérieure
Einecs:	Inventaire européen des substances chimiques existantes commerciales
ENCS	Existantes et nouvelles substances chimiques japonaises
ECL:	Liste des produits chimiques existants, l'inventaire chimique coréenne.

Article Information Sheet

Fiche d'information Article

Product name: carbon zinc battery

Printing date: 2021.12.16 Nom du produit: pile au carbone-zinc

Date d'impression: 2021.12.16

IECSC: Inventaire des substances chimiques existantes en Chine.
Parce que toutes nos batteries sont définies comme des « articles », ils sont exemptés des exigences de la norme de communication des risques. Les informations contenues dans ce AIS est fourni tous les pleinement et véritablement les données pertinentes. Cependant, les informations sont fournies sans aucune garantie sur leur extensification absolue et la précision. Cet AIS a été préparé à des mesures préventives de sécurité pour les utilisateurs qui ont obtenu la formation professionnelle. L'utilisateur personnel qui a obtenu ce SIA devrait porter un jugement indépendant pour l'applicabilité de cette AIS dans des conditions particulières. Dans ces cas particuliers, nous n'assumons la responsabilité pour les dommages.

----- Fin de l'AIS -----

Article Information Sheet

Fiche d'information Article

Product name: Alkaline batteries

Printing date: 14-Jan-2020

Nom du produit: Piles alcalines

Date d'impression: 14-Jan-2020

Article Information Sheet (AIS)

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS - compliant SDS. Articles, such as batteries, are exempt 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 Energizer branded consumer batteries follow ANSI and IEC battery standards.

1. DOCUMENT INFORMATION

Product name: Alkaline batteries
Model: LR6
Issue Date: 14-Jan-2020

2. COMPANY INFORMATION

Company name(China) Guangdong Liwang New Energy Co.,Ltd.
Address: shima District,Tangxia Town,Dongguan City ,Guangdong Province,China
E-mail: qa1@liwangbattery.com
Telephone: +86-769-86201111-8062

3. ARTICLE INFORMATION

Description	Alkaline batteries
Use	Alkaline Battery.
Brand	----

Article Feuille d'information (AIS)

Cette fiche d'information Article (AIS) fournit des informations sur la batterie correspondant aux détaillants, aux consommateurs, aux OEM et aux autres utilisateurs qui demandent un SDS SGH-conforme. Les articles, tels que les piles, sont exemptés de critères de classification SGH SDS. Les critères du SGH ne sont pas conçus ou destinés à être utilisés pour classer les risques physiques, la santé et l'environnement d'un article. batteries de consommation de marque sont définis comme des dispositifs électro-technique. La conception, la sécurité, la fabrication, et la qualification des batteries de consommation de marque Energizer sont conformes aux normes de la batterie ANSI et IEC.

1. DOCUMENT D'INFORMATION

Produit Nom: Piles alcalines
Modèle: LR6
Date 14-Jan-2020
d'émission:

2. INFORMATIONS SUR LA SOCIÉTÉ

Nom de l'entreprise Guangdong Liwang New Energy Co., Ltd. (Chine)
Adresse: Shima District, Tangxia Town, la ville de Dongguan, province du Guangdong, en Chine
Email: qa1@liwangbattery.com
Téléphone: + 86-769-86201111-8062

3. ARTICLE D'INFORMATION

La description	Piles alcalines
Utilisation	Pile alcaline.

Article Information Sheet

Fiche d'information Article

Product name: Alkaline batteries

Printing date: 14-Jan-2020

Nom du produit: Piles alcalines

Date d'impression: 14-Jan-2020

Image



Marque

Image



4. ARTICLE CONSTRUCTION

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

Chemical name	CAS No.	Concentration%
Iron	7439-89-6	18
Manganese dioxide	1313-13-9	40
Potassium hydroxide	1310-58-3	8
Water	7732-18-5	10
Zinc	7440-66-6	16
Copper	7440-50-8	3
Nylon	9008-75-7	2
Graphite	7782-42-5	3

5. HEALTH AND SAFETY

Ingestion:	Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Inhalation:	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed

4. ARTICLE CONSTRUCTION

REMARQUE IMPORTANTE: La batterie ne doit pas être ouvert ou brûlé. L'exposition aux ingrédients contenus dans leurs produits ou de combustion pourrait être nocif.

Nom chimique	N ° CAS.	Concentration%
Le fer	7439-89-6	18
Dioxyde de manganèse	1313-13-9	40
L'hydroxyde de potassium	1310-58-3	8
Eau	7732-18-5	10
Zinc	7440-66-6	16
Cuivre	7440-50-8	3
Nylon	9008-75-7	2
Graphite	7782-42-5	3

5. SANTÉ ET SÉCURITÉ

Ingestion:	Ne pas faire vomir. Se rincer la bouche et boire beaucoup d'eau. Ne portez rien à la bouche d'une personne inconsciente. Appeler un centre de contrôle médecin ou de poison immédiatement.
------------	--

Article Information Sheet

Fiche d'information Article

Product name: Alkaline batteries

Printing date: 14-Jan-2020

Nom du produit: Piles alcalines

Date d'impression: 14-Jan-2020

	pulmonary edema may occur. Get medical attention immediately if symptoms occur.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.
Self-protection of the first aider:	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

6. FIRE HAZARD & FIREFIGHTING

Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.
Special hazards arising from the chemical	Under fire conditions, batteries may burst and release hazardous decomposition products when exposed to a fire situation. This could result in the release of flammable or corrosive materials. Hazardous combustion products: CO, CO ₂ , Metal oxides, Irritating fumes
Precautions for fire-fighters	Firefighters must wear fire resistant protective equipment and appropriate breathing apparatus. The staff must equip with filtermask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire

Inhalation:	À l'air frais. Si la respiration est arrêtée, pratiquer la respiration artificielle. Consulter un médecin immédiatement. Ne pas utiliser le bouche-à-bouche si la victime a ingéré ou inhalé la substance; pratiquer la respiration artificielle à l'aide d'un masque de poche muni d'une valve à une voie ou d'un autre appareil médical approprié. Si la respiration est difficile, (du personnel qualifié devrait) donner de l'oxygène. œdème pulmonaire retardé peut se produire. Consulter un médecin si des symptômes apparaissent.
Contact avec la peau:	Laver immédiatement avec du savon et beaucoup d'eau tout en enlevant les vêtements contaminés et les chaussures. Une attention médicale immédiate est nécessaire. Peut provoquer une réaction allergique cutanée.
Lentilles de contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.
Self-protection of the first aider:	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

6. FIRE HAZARD & FIREFIGHTING

Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.

Article Information Sheet

Fiche d'information Article

Product name: Alkaline batteries

Printing date: 14-Jan-2020

Nom du produit: Piles alcalines

Date d'impression: 14-Jan-2020

and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment.

7. HANDLING AND STORAGE

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
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.
Spills of Large Quantities Batteries (unpackaged)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.

8. DISPOSAL CONSIDERATIONS

Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to

Special hazards arising from the chemical	Under fire conditions, batteries may burst and release hazardous decomposition products when exposed to a fire situation. This could result in the release of flammable or corrosive materials. Hazardous combustion products: CO, CO ₂ , Metal oxides, Irritating fumes
Precautions for fire-fighters	Firefighters must wear fire resistant protective equipment and appropriate breathing apparatus. The staff must equip with filtermask (full mask) or isolated breathing apparatus. The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment.

7. HANDLING AND STORAGE

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.
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.
Spills of Large Quantities Batteries (unpackaged)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in

Article Information Sheet

Fiche d'information Article

Product name: Alkaline batteries

Printing date: 14-Jan-2020

Nom du produit: Piles alcalines

Date d'impression: 14-Jan-2020

short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

9. Transport information

DOT	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

10. REGULATORY INFORMATION

(a) Safety, health and environmental regulations specific for the product in question

CAS No.	USA TSCA	EU EINECS	Japan ENCS	Korea ECL	China IECSC	Canada DSL
7439-89-6	Listed	Listed	Listed	Listed	Listed	Not listed
1313-13-9	Listed	Listed	Listed	Listed	Listed	Listed

appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.

8. DISPOSAL CONSIDERATIONS

Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

9. Transport information

DOT	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

Article Information Sheet

Fiche d'information Article

Product name: Alkaline batteries

Printing date: 14-Jan-2020

Nom du produit: Piles alcalines

Date d'impression: 14-Jan-2020

1310-58-3	Listed	Not listed	Listed	Not listed	Listed	Not listed
7732-18-5	Listed	Listed	Listed	Listed	Listed	Not listed
7440-66-6	Listed	Listed	Not listed	Listed	Listed	Not listed
7440-50-8	Not listed	Listed	Listed	Listed	Listed	Not listed
9008-75-7	Not listed	Listed	Listed	Listed	Listed	Not listed
7782-42-5	Listed	Listed	Not listed	Listed	Listed	Listed

11. OTHER INFORMATION

TSCA: Toxic Substances Control Act, The American chemical inventory.

DSL Domestic Substances List

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS Japanese Existing and New Chemical Substances

ECL: Existing Chemicals List, the Korean chemical inventory.

IECSC: Inventory of existing chemical substances in China.

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this AIS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This AIS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this AIS should make independent judgment for the applicability of this AIS under special conditions. In these special cases, we do not assume responsibility for the damage.

----- End of the AIS -----

10. REGULATORY INFORMATION

(a) Safety, health and environmental regulations specific for the product in question

CAS No.	USA TSCA	EU EINECS	Japan ENCS	Korea ECL	China IECSC	Canada DSL
7439-89-6	Listed	Listed	Listed	Listed	Listed	Not listed
1313-13-9	Listed	Listed	Listed	Listed	Listed	Listed
1310-58-3	Listed	Not listed	Listed	Not listed	Listed	Not listed
7732-18-5	Listed	Listed	Listed	Listed	Listed	Not listed
<u>7440-66-6</u>	Listed	Listed	Not listed	Listed	Listed	Not listed
7440-50-8	Not listed	Listed	Listed	Listed	Listed	Not listed
9008-75-7	Not listed	Listed	Listed	Listed	Listed	Not listed
7782-42-5	Listed	Listed	Not listed	Listed	Listed	Listed

11. OTHER INFORMATION

TSCA: Toxic Substances Control Act, The American chemical inventory.

DSL Domestic Substances List

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS Japanese Existing and New Chemical Substances

ECL: Existing Chemicals List, the Korean chemical inventory.

IECSC: Inventory of existing chemical substances in China.

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this AIS

Article Information Sheet

Fiche d'information Article

Product name: Alkaline batteries

Printing date: 14-Jan-2020

Nom du produit: Piles alcalines

Date d'impression: 14-Jan-2020

is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This AIS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this AIS should make independent judgment for the applicability of this AIS under special conditions. In these special cases, we do not assume responsibility for the damage.

----- End of the AIS -----

Article Information Sheet

Fiche d'information Article

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

Article Information Sheet (AIS)

This Article Information Sheet (AIS) provides relevant battery information to retailers, consumers, OEMs and other users requesting a GHS - compliant SDS. Articles, such as batteries, are exempt 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 Energizer branded consumer batteries follow ANSI and IEC battery standards.

1. DOCUMENT INFORMATION

Product name: ALKALINE BATTERY
Model: LR03
Issue Date: 31-Oct-2022

2. COMPANY INFORMATION

Company name(China) Guangdong Liwang New Energy Co.,Ltd.
Address: Shima District, Tangxia Town, Dongguan City, Guangdong Province, China
E-mail: qa1@liwangbattery.com
Telephone: +86-769-86201111-8062

3. ARTICLE INFORMATION

Description	ALKALINE BATTERY
Use	ALKALINE BATTERY.
Brand	----

Article Feuille d'information (AIS)

Cette fiche d'information Article (AIS) fournit des informations sur la batterie correspondant aux détaillants, aux consommateurs, aux OEM et aux autres utilisateurs qui demandent un SDS SGH-conforme. Les articles, tels que les piles, sont exemptés de critères de classification SGH SDS. Les critères du SGH ne sont pas conçus ou destinés à être utilisés pour classer les risques physiques, la santé et l'environnement d'un article. batteries de consommation de marque sont définis comme des dispositifs électro-technique. La conception, la sécurité, la fabrication, et la qualification des batteries de consommation de marque Energizer sont conformes aux normes de la batterie ANSI et IEC.

1. DOCUMENT D'INFORMATION

Produit Nom: Batterie alcaline
Modèle: LR03
Date d'émission: 31-Oct-2022

2. INFORMATIONS SUR LA SOCIÉTÉ

Nom de l'entreprise Guangdong Liwang New Energy Co., Ltd.
(Chine)
Adresse: Shima District, Tangxia Town, la ville de Dongguan, province du Guangdong, en Chine
Email: qa1@liwangbattery.com
Téléphone: + 86-769-86201111-8062

3. ARTICLE D'INFORMATION

La description	Batterie alcaline
Utilisation	Batterie alcaline
Marque	----

Article Information Sheet

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Fiche d'information Article

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

Image

None

Image None

4. ARTICLE CONSTRUCTION

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

Chemical name	CAS No.	Concentration%
Manganese dioxide	1313-13-9	40
Zinc	7440-66-6	16
Potassium hydroxide	1310-58-3	8
Water	7732-18-5	10
Iron	7439-89-6	17
Paper	RR-01108-5	1
Copper	7440-50-8	3
Nylon-6	25038-54-4	2
Graphite	7782-42-5	3

5. HEALTH AND SAFETY

Ingestion: Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If

4. ARTICLE CONSTRUCTION

REMARQUE IMPORTANTE: La batterie ne doit pas être ouvert ou brûlé. L'exposition aux ingrédients contenus dans leurs produits ou de combustion pourrait être nocif.

Nom chimique	N ° CAS.	Concentration n%
Dioxyde de manganèse	1313-13-9	40
Zinc	7440-66-6	16
Hydroxyde de Potassium	1310-58-3	8
Eau	7732-18-5	10
Le fer	7439-89-6	17
papier	RR-01108-5	1
cuiivre	7440-50-8	3
Nylon-6	25038-54-4	2
Graphite	7782-42-5	3

5. SANTÉ ET SÉCURITÉ

Ingestion: Ne pas faire vomir. Se rincer la bouche et boire beaucoup d'eau. Ne portez rien à la bouche d'une personne inconsciente. Appeler un centre de contrôle médecin ou de poison immédiatement.

Article Information Sheet

Fiche d'information Article

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

Skin contact:	pulmonary edema may occur. Get medical attention immediately if symptoms occur. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is required. May cause an allergic skin reaction.
Eye contact:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention/advice.
Self-protection of the first aider:	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

6. FIRE HAZARD & FIREFIGHTING

Fire Hazard	Batteries may rupture or leak if involved in a fire.
Extinguishing Media	Use any extinguishing media appropriate for the surrounding area.
Special hazards arising from the chemical	Under fire conditions, batteries may burst and release hazardous decomposition products when exposed to a fire situation. This could result in the release of flammable or corrosive materials. Hazardous combustion products: CO, CO ₂ , Metal oxides, Irritating fumes
Precautions for fire-fighters	Firefighters must wear fire resistant protective equipment and appropriate breathing apparatus. The staff must equip with filtermask (full mask) or isolated breathing apparatus.

Inhalation:	À l'air frais. Si la respiration est arrêtée, pratiquer la respiration artificielle. Consulter un médecin immédiatement. Ne pas utiliser le bouche-à-bouche si la victime a ingéré ou inhalé la substance; pratiquer la respiration artificielle à l'aide d'un masque de poche muni d'une valve à une voie ou d'un autre appareil médical approprié. Si la respiration est difficile, (du personnel qualifié devrait) donner de l'oxygène. œdème pulmonaire retardé peut se produire. Consulter un médecin si des symptômes apparaissent.
Contact avec la peau:	Laver immédiatement avec du savon et beaucoup d'eau tout en enlevant les vêtements contaminés et les chaussures. Une attention médicale immédiate est nécessaire. Peut provoquer une réaction allergique cutanée.
Lentilles de contact:	Rincer immédiatement et abondamment avec de l'eau, y compris sous les paupières, pendant au moins 15 minutes. Gardez l'œil ouvert pendant le rinçage. Ne pas frotter les zones touchées. lentilles de contact Retirer, si elle est présente et facile à faire. Continuer à rincer. Consulter un / des conseils médicaux immédiats.
Auto-protection du secouriste:	Veiller à ce que le personnel médical sont au courant de la matière (s) impliqués, prendre des précautions pour se protéger et prévenir la propagation de la contamination. Éviter tout contact avec la peau, les yeux ou les vêtements. Éviter tout contact direct avec la peau. Utilisez barrière pour donner la respiration artificielle bouche-à-bouche. Utiliser un équipement de protection individuel requis. Porter des vêtements de protection individuelle (voir la section 8).

6. RISQUE D'INCENDIE & POMPIERS

Article Information Sheet

Fiche d'information Article

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

The staff must wear the clothes which can defense the fire and the toxic gas. Put out the fire in the upwind direction. Remove the container to the open space as soon as possible. Spray water on the containers in the fireplace to keep them cool until finish extinguishment.

7. HANDLING AND STORAGE

Storage	Don't handling Carbon Zinc Battery with metalwork. Do not open, disassemble, crush or burn battery. Ensure good ventilation/ exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and fires: Keep ignition sources away- Do not smoke. Recommended at 0°C~+35°C for long period storage. Do not storage Carbon Zinc Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects. Keep out of reach of children. Do not expose Carbon Zinc Battery to heat or fire. Avoid storage in direct sunlight. Do not store together with oxidizing and acidic materials.
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.
Spills of Large Quantities Batteries (unpacked)	Notify spill personnel of large spills. Irritating and flammable vapors may be released from leaking or ruptured batteries. Spread batteries apart to stop shorting. Eliminate all ignition sources. Evacuate area and allow vapors to

Risque d'incendie	Les piles peuvent se rompre ou fuir si elle est impliquée dans un incendie.
Moyens d'extinction	Utilisez tous les moyens d'extinction appropriés pour la région environnante.
Dangers particuliers résultant de la substance chimique	En cas d'incendie, les piles peuvent éclater et libérer des produits de décomposition dangereux lorsqu'ils sont exposés à une situation d'incendie. Cela pourrait entraîner le rejet de matières inflammables ou corrosifs. Produits de combustion dangereux: CO, CO2, des oxydes métalliques, des vapeurs irritantes
Précautions à prendre pour les pompiers	Les pompiers doivent porter un équipement de protection résistant au feu et un appareil respiratoire approprié. Le personnel doit équiper avec filtermask (masque complet) ou un appareil respiratoire isolé. Le personnel doit porter les vêtements qui peuvent défendre le feu et le gaz toxique. Mettre le feu dans la direction face au vent. Retirez le récipient à l'espace ouvert le plus tôt possible. Pulvériser de l'eau sur les récipients dans la cheminée pour les garder au frais jusqu'à ce que l'extinction d'arrivée.

7. MANIPULATION ET STOCKAGE

Article Information Sheet

Fiche d'information Article

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

dissipate. Clean-up personnel should wear appropriate PPE to avoid eye and skin contact and inhalation of vapors or fumes. Increase ventilation. Carefully collect batteries and place in appropriate container for disposal. Remove any spilled liquid with absorbent material and contain for disposal.

8. DISPOSAL CONSIDERATIONS

Dispose of used (or excess) batteries in compliance with federal, state/provincial and local regulations. Do not accumulate large quantities of used batteries for disposal as accumulations could cause batteries to short-circuit. Do not incinerate. In countries, such as Canada and the EU, where there are regulations for the collection and recycling of batteries, consumers should dispose of their used batteries into the collection network at municipal depots and retailers. They should not dispose of batteries with household trash.

9. Transport information

DOT	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulateds
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
Marine Pollutant	Product is a marine pollutant according to the criteria

Espace de rangement	Ne pas manipuler le carbone zinc batterie avec ferronnerie. Ne pas ouvrir, dissemble, écraser ou brûler la batterie. Veiller à une bonne ventilation / aspiration du poste de travail. Eviter la formation de poussière. Informations sur la protection contre les incendies et les explosions: Tenir les sources d'inflammation de ne pas fumer. Recommandé à 0 °C ~ 35 °C pour le stockage de longue période. Ne pas le stockage de carbone de zinc batterie au petit bonheur dans une boîte ou un tiroir où ils peuvent court-circuiter l'autre ou être court-circuité par d'autres objets métalliques. Tenir hors de portée des enfants. Ne pas exposer le carbone zinc à la chaleur ou le feu. Éviter le stockage en plein soleil. Ne pas stocker avec des produits oxydants et acides.
Manipulation	Éviter les abus mécaniques et électriques. Ne pas court-circuiter ou installer correctement. Les piles peuvent se rompre ou de ventilation si elles sont démontées, écrasées, rechargées ou exposé à une forte températures. Installez les piles conformément aux instructions du fabricant.
Déversements de grandes quantités	Informez le personnel de déversement de grands déversements. Irritant et vapeurs inflammables peuvent être libérés de
Batteries (non fuites ou les piles endommagées. piles emballés)	écarterez pour arrêter les courts-circuits. éliminer tous les sources d'allumage. Évacuer la zone et laisser les vapeurs se dissipent. Le personnel de nettoyage devrait porter des EPI appropriés pour éviter les yeux et contact

Article Information Sheet

Fiche d'information Article

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

RID set by IMDG/IMO
Not regulated
ADR Not regulated
ADN Not regulated

Transport information: Alkaline battery is exempt from dangerous goods. It is considered non-dangerous goods by the International Civil Aviation Organization (ICAO), the International Air Transport Association (IATA) DGR 56th, International Maritime Dangerous Goods Regulations (IMDG)(36-12)

Alkaline battery batteries or Alkaline battery battery- powered devices, equipment or vehicles having the potential of a dangerous evolution of heat are not subject to these Regulations provided they are prepared for transport so as to prevent:

- (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and
- (b) unintentional activation.

The word "Not Restricted" and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued

Separate batteries when shipping to prevent short-circuiting. They should be packed in strong packaging for support during transport

Transport Fashion: Air, Rail, Road, Marine

10. REGULATORY INFORMATION

(a) Safety, health and environmental regulations specific for the product in question

avec la peau et l'inhalation des vapeurs ou fumées.
Augmenter la ventilation. batteries cueillent et les placer dans un récipient approprié pour disposition. Retirez tout liquide déversé avec une matière absorbante et contiennent pour l'élimination.

8. CONSIDERATIONS RELATIVES À L'ÉLIMINATION

Jetez les piles usagées (ou excédent) conformément aux règlements fédéraux, provinciaux / provinciaux et locaux. Ne pas accumuler de grandes quantités de piles usagées pour l'élimination comme accumulations pourraient provoquer un court-circuit. Ne pas incinérer. Dans les pays, comme le Canada et l'Union européenne, où il existe des règlements pour la collecte et le recyclage des batteries, les consommateurs devraient disposer de leurs piles usagées dans le réseau de collecte dans les dépôts municipaux et les détaillants. Ils ne doivent pas jeter les piles avec les ordures ménagères.

9. Informations de transport

DOT	NOT REGULATED
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
RID	Not regulated

Article Information Sheet

Fiche d'information Article

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

CAS No.	USA TSCA	EU EINECS	Japan ENCS	Korea ECL	China IECSC	Canada DSL
1313-13-9	Listed	Listed	Listed	Listed	Listed	Listed
7440-66-6	Listed	Listed	Not listed	Listed	Listed	Not listed
1310-58-3	Listed	Not listed	Listed	Not listed	Listed	Not listed
7732-18-5	Listed	Listed	Listed	Listed	Listed	Not listed
7439-89-6	Listed	Listed	Listed	Listed	Listed	Listed
RR-01108-5	Listed	Listed	Listed	Listed	Listed	Listed
7440-50-8	Not listed	Listed	Listed	Listed	Listed	Not listed
25038-54-4	Listed	Not listed	Listed	Not listed	Not listed	Not listed
7782-42-5	Listed	Listed	Not listed	Listed	Listed	Listed

11. OTHER INFORMATION

TSCA: Toxic Substances Control Act, The American chemical inventory.

DSL: Domestic Substances List

EINECS: European Inventory of Existing Commercial chemical Substances

ENCS: Japanese Existing and New Chemical Substances

ECL: Existing Chemicals List, the Korean chemical inventory.

IECSC: Inventory of existing chemical substances in China.

Because all of our batteries are defined as "articles", they are exempted from the requirements of the Hazard Communication Standard. The information in this AIS is provided all the relevant data fully and truly. However, the information is provided without any warranty on their absolute extensiveness and accuracy. This AIS was prepared to provide safety preventive measures for the users who have got professional training. The personal user who obtained this AIS should make independent judgment for the applicability of this AIS under special conditions. In these special cases, we do not assume responsibility for the damage.

ADR Not regulated

ADN Not regulated

Informations relatives au transport: piles alcalines est exempt de marchandises dangereuses. Il est considéré comme non dangereuses par l'Organisation internationale de l'aviation civile (OACI), l'Association internationale du transport aérien (IATA) DGR 56e, marchandises dangereuses internationales Martine (IMDG) (36-12)

Pile alcaline batteries ou Pile alcaline dispositifs alimentés par batterie, l'équipement ou les véhicules ayant le potentiel d'une évolution dangereuse de la chaleur ne sont pas soumis au présent règlement à condition qu'ils soient préparés pour le transport de manière à éviter:

1. un court-circuit (par exemple dans le cas des batteries, par l'isolation efficace des bornes exposées; ou, dans le cas d'un équipement, par déconnexion de la batterie et la protection des bornes exposées); et
2. activation involontaire.

Le mot « Non restreint » et le numéro de la disposition spéciale doit être inclus dans la description de la substance sur la lettre de transport aérien tel que requis par 8.2.6, lorsqu'une lettre de transport aérien est délivré

batteries séparées lors de l'expédition pour éviter un court-circuit. Ils doivent être emballés dans un emballage solide pour le soutien pendant le transport

Transport Mode: Aérien, ferroviaire, routier, maritime

10. INFORMATIONS RÉGLEMENTAIRES

(A) la sécurité, de santé et de l'environnement spécifique pour le produit en question

N ° CAS.	Etats-Unis	UE	Japon	Corée	Chine	Canada
----------	------------	----	-------	-------	-------	--------

Article Information Sheet

Fiche d'information Article

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

----- End of the AIS -----

	TSCA	Einecs	ENCS	ECL	IECSC	DSL
1313-13-9	Listed	Listed	Listed	Listed	Listed	Listed
7440-66-6	Listed	Listed	Non listé	Listed	Listed	Non listé
1310-58-3	Listed	Non listé	Listed	Not listed	Listed	Non listé
7732-18-5	Listed	Listed	Listed	Listed	Listed	Non listé
7439-89-6	Listed	Listed	Listed	Listed	Listed	Listed
RR-01108-5	Listed	Listed	Listed	Listed	Listed	Listed
7440-50-8	Non listé	Listed	Listed	Listed	Listed	Non listé
25038-54-4	Listed	Non listé	Listed	Non listé	Non listé	Non listé
7782-42-5	Listed	Listed	Non listé	Listed	Listed	Listed

11. LES AUTRES INFORMATIONS

- TSCA: Toxic Substances Control Act, l'inventaire chimique américain.
DSL: Liste intérieure
Einecs: Inventaire européen des substances chimiques existantes commerciales
ENCS: Existantes et nouvelles substances chimiques japonaises
ECL: Liste des produits chimiques existants, l'inventaire chimique coréenne.
IECSC: Inventaire des substances chimiques existantes en Chine.

Article Information Sheet

Product name: ALKALINE BATTERY

Printing date: 31-Oct-2022

Fiche d'information Article

Nom du produit: Batterie alcaline

Date d'impression: 31-Oct-2022

Parce que toutes nos batteries sont définies comme des « articles », ils sont exemptés des exigences de la norme de communication des risques. Les informations contenues dans ce AIS est fourni tous les pleinement et véritablement les données pertinentes. Cependant, les informations sont fournies sans aucune garantie sur leur extensification absolue et la précision. Cet AIS a été préparé à des mesures préventives de sécurité pour les utilisateurs qui ont obtenu la formation professionnelle. L'utilisateur personnel qui a obtenu ce SIA devrait porter un jugement indépendant pour l'applicabilité de cette AIS dans des conditions particulières. Dans ces cas particuliers, nous n'assumons la responsabilité pour les dommages.

----- Fin de l'AIS -----

LR6 (Amazon) MERCURY FREE ALKALINE MANGANESE BATTERY SPECIFICATION

1. General

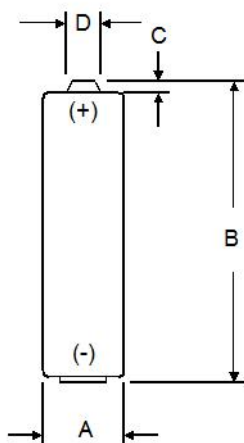
1.1 Scope

This specification applies to LR6 alkaline batteries produced by Hangzhou Powerpack Battery Co., Ltd. which defines the criteria for the technical requirement, measurement method and usage guide.

1.2 Essential Parameters

Model	IEC-LR6 ANSI-AA
Electrochemical System	Zinc - MnO ₂
Nominal Weight(without label)	23 ± 1g
Nominal Voltage	1.5V
Working Temperature	-20°C~54°C
Shelf Life (20 ± 2°C , RH55 ± 20%)	10 years
Packaging and Mark	Plastic aluminum jacket (marked with expiry date or by customer request)
Hazardous Substance	Hg Content <1ppm Cd Content <20ppm Pb Content <40ppm
Reference Standard	IEC 60086.2-2015 IEC 60086.5-2015 2006/66/EC

2. Dimension



	dimension(mm)
A – diameter	13.7-14.5
B – overall height	49.5 -50.5
C – cap height	1.0 MIN
D – cap diameter	5.5 MAX

3. Electrical Characteristics (Initially)

Item		Minimum average duration	test condition
3.1	OCV	1.60V	Battery should be stored under the environment ($20 \pm 2^\circ \text{C}$, RH $55 \pm 20\%$) at least 8 h before test
3.2	CCV (load resistance 10Ω)	1.48V	
3.3	SCC (short-circuit time 0.8s)	6A	

Note: Initially means that the battery is within 3 months from the date of manufacture.

4. Discharge Performance ($20 \pm 2^\circ \text{C}$, RH: $55 \pm 20\%$)

Battery should be stored under the environment ($20 \pm 2^\circ \text{C}$, RH $55 \pm 20\%$) at least 24 h before discharge test.

Stand ard	Appliances (simulating)	Discharge Pattern	End Voltage	Unit	Initially	
					MAD	Actual level
IEC 60086. 2-2015	Digital camera	1500mW-2s, 650mW-28s, repeat 10 times (5min/h)	1.05V	pulse	70	100
	CD/Electrical Toy	250mA-1h/d	0.9V	hour	7.5	8.5
	Digital Audio	100mA-1h/d	0.9V	hour	22	24.5
	Motor/Toy	3.9Ω -1h/d	0.8V	hour	7.0	7.8
	Radio /Alarm Clock/Remote Control	50mA-1h/8h, 24h/d	0.9V	hour	45	50
	Portable lighting	3.9Ω -4min/h, 8h/d	0.9V	hour	6.5	7.1

Note: Initially means that the battery is within 3 months from the date of manufacture.

5. Anti-leakage Performance

No.	Test Item	Test Method	Sample QTY.	Standard Value	Actual Value
1	High temperature and high humidity Anti-leakage test	Store the battery under an environmental condition of Temp. $60 \pm 2^\circ \text{C}$ and RH: $90 \pm 5\%$ for certain days, then put them under normal atmospheric temperature for 4~24 hours	10 pcs	No leakage within 50 days	No leakage within 80 days
2	High temperature Anti-leakage test	Store the battery under an environmental condition of Temp. $71 \pm 2^\circ \text{C}$ for certain days, then put them under normal atmospheric temperature for 4~24 hours	10 pcs	No leakage within 56 days	No leakage within 80 days

Note: All test battery samples refer to the battery of initially, which means that the battery is within 3 months from the date of manufacture.

6. Safety Performance (test environmental condition: $20 \pm 2^\circ \text{C}$, RH $55 \pm 20\%$)

No.	Safety Test Items	Test Method	Sample Quantity	Specification
-----	-------------------	-------------	-----------------	---------------

1	Storage after partial use	Place the discharged battery(3.9Ω-1h/d, 2.5h) under an environmental condition of Temp.45±5°C for 30 days	5pcs	No leakage, No Explosion, No Fire
2	Transportation shock	IEC	5pcs	No leakage, No Explosion, No Fire
3	Transportation vibration	IEC	5pcs	No leakage, No Explosion, No Fire
4	Climatic-temperature cycling	Place the battery in the temperature cycling procedure between -20°C and 70°C for 10 cycles	5pcs	No Explosion, No Fire,
5	Incorrect installation	Keep four un-discharged batteries from the same batch series connected with one of them (the Test Battery) reversed. The circuit shall be completed for 24h.	5 groups	No Explosion, No Fire,
6	External short circuit	Keep the battery external short-circuit for 24hours under the specified condition.	5pcs	No Explosion, No Fire,
7	Overdischarge	IEC(1 discharged battery+ 3 undischarged batteries)	5 groups	No Explosion, No Fire,
8	Free fall	The battery shall be dropped from a height of 1m onto a concrete surface. Each battery shall be dropped six times, and twice on each of the three axes. The battery shall be stored for 1h afterwards.	5pcs	No Explosion, No Fire,

Note: All test battery samples refer to the battery of initially, which means that the battery is within 3 months from the date of manufacture.

7. Usage Guide (Please refer to IEC60086.5 for detailed safety and storage specifications.)

- (1) Insert batteries correctly with regard to the polarities (“+”/“-”) marked on the battery and the electrical appliances.
- (2) Do not short-circuit, recharge, heat, dispose of in fire, forced discharge or disassemble the battery.
- (3) Do not mix use old batteries with new ones, or mix use batteries of different types or brands.
- (4) Remove the exhausted battery from the appliances immediately.
- (5) Keep the batteries away from small children; do not let the child remove/ replace batteries without monitoring from adults.
- (6) Storage condition of the batteries shall be Temperature: 15°C~25°C (not higher than 30°C), while avoid storing in extremely damp environment (better in RH: 40%~90%); Naked battery better stored after labeling.

LR6 (Amazon) MERCURY FREE ALKALINE MANGANESE BATTERY SPECIFICATION

1. General

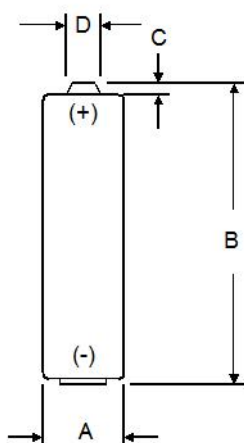
1.1 Scope

This specification applies to LR6 alkaline batteries produced by Hangzhou Powerpack Battery Co., Ltd. which defines the criteria for the technical requirement, measurement method and usage guide.

1.2 Essential Parameters

Model	IEC-LR6 ANSI-AA
Electrochemical System	Zinc - MnO ₂
Nominal Weight(without label)	23 ± 1g
Nominal Voltage	1.5V
Working Temperature	-20°C~54°C
Shelf Life (20 ± 2°C , RH55 ± 20%)	10 years
Packaging and Mark	Plastic aluminum jacket (marked with expiry date or by customer request)
Hazardous Substance	Hg Content <1ppm Cd Content <20ppm Pb Content <40ppm
Reference Standard	IEC 60086.2-2015 IEC 60086.5-2015 2006/66/EC

2. Dimension



	dimension(mm)
A – diameter	13.7-14.5
B – overall height	49.5 -50.5
C – cap height	1.0 MIN
D – cap diameter	5.5 MAX

3. Electrical Characteristics (Initially)

Item		Minimum average duration	test condition
3.1	OCV	1.60V	Battery should be stored under the environment (20 ± 2 ° C, RH 55 ± 20%) at least 8 h before test
3.2	CCV (load resistance 10Ω)	1.48V	
3.3	SCC (short-circuit time 0.8s)	6A	

Note: Initially means that the battery is within 3 months from the date of manufacture.

4. Discharge Performance (20±2°C, RH: 55±20%)

Battery should be stored under the environment (20 ± 2 ° C, RH 55 ± 20%) at least 24 h before discharge test.

Stand ard	Appliances (simulating)	Discharge Pattern	End Voltage	Unit	Initially	
					MAD	Actual level
IEC 60086. 2-2015	Digital camera	1500mW-2s, 650mW-28s, repeat 10 times (5min/h)	1.05V	pulse	70	100
	CD/Electrical Toy	250mA-1h/d	0.9V	hour	7.5	8.5
	Digital Audio	100mA-1h/d	0.9V	hour	22	24.5
	Motor/Toy	3.9Ω-1h/d	0.8V	hour	7.0	7.8
	Radio /Alarm Clock/Remote Control	50mA-1h/8h, 24h/d	0.9V	hour	45	50
	Portable lighting	3.9Ω-4min/h, 8h/d	0.9V	hour	6.5	7.1

Note: Initially means that the battery is within 3 months from the date of manufacture.

5. Anti-leakage Performance

No.	Test Item	Test Method	Sample QTY.	Standard Value	Actual Value
1	High temperature and high humidity Anti-leakage test	Store the battery under an environmental condition of Temp.60±2°C and RH: 90±5% for certain days, then put them under normal atmospheric temperature for 4~24 hours	10 pcs	No leakage within 50 days	No leakage within 80 days
2	High temperature Anti-leakage test	Store the battery under an environmental condition of Temp.71±2°C for certain days, then put them under normal atmospheric temperature for 4~24 hours	10 pcs	No leakage within 56 days	No leakage within 80 days

Note: All test battery samples refer to the battery of initially, which means that the battery is within 3 months from the date of manufacture.

6. Safety Performance (test environmental condition: 20±2°C, RH55±20%)

No.	Safety Test Items	Test Method	Sample Quantity	Specification
-----	-------------------	-------------	-----------------	---------------

1	Storage after partial use	Place the discharged battery(3.9Ω-1h/d, 2.5h) under an environmental condition of Temp.45±5°C for 30 days	5pcs	No leakage, No Explosion, No Fire
2	Transportation shock	IEC	5pcs	No leakage, No Explosion, No Fire
3	Transportation vibration	IEC	5pcs	No leakage, No Explosion, No Fire
4	Climatic-temperature cycling	Place the battery in the temperature cycling procedure between -20°C and 70°C for 10 cycles	5pcs	No Explosion, No Fire,
5	Incorrect installation	Keep four un-discharged batteries from the same batch series connected with one of them (the Test Battery) reversed. The circuit shall be completed for 24h.	5 groups	No Explosion, No Fire,
6	External short circuit	Keep the battery external short-circuit for 24hours under the specified condition.	5pcs	No Explosion, No Fire,
7	Overdischarge	IEC(1 discharged battery+ 3 undischarged batteries)	5 groups	No Explosion, No Fire,
8	Free fall	The battery shall be dropped from a height of 1m onto a concrete surface. Each battery shall be dropped six times, and twice on each of the three axes. The battery shall be stored for 1h afterwards.	5pcs	No Explosion, No Fire,

Note: All test battery samples refer to the battery of initially, which means that the battery is within 3 months from the date of manufacture.

7. Usage Guide (Please refer to IEC60086.5 for detailed safety and storage specifications.)

- (1) Insert batteries correctly with regard to the polarities (“+”/“-”) marked on the battery and the electrical appliances.
- (2) Do not short-circuit, recharge, heat, dispose of in fire, forced discharge or disassemble the battery.
- (3) Do not mix use old batteries with new ones, or mix use batteries of different types or brands.
- (4) Remove the exhausted battery from the appliances immediately.
- (5) Keep the batteries away from small children; do not let the child remove/ replace batteries without monitoring from adults.
- (6) Storage condition of the batteries shall be Temperature: 15°C~25°C (not higher than 30°C), while avoid storing in extremely damp environment (better in RH: 40%~90%); Naked battery better stored after labeling.