



## SAFETY DATA SHEETS

The batteries are articles and are not subject to the OSHA Hazard Communication Standard Requirement as shown in paragraph (b)(6)(v) of §1910.1200. This sheet is provided as technical information only. The information and recommendations set forth are made in good faith and are believed to be accurate as of the date of preparation. However, **Maxell makes no warranty expressed or implied.**

### 1. Identification

- (a) Product identifier used on the label:

LR/maxell/+

- (b) Other means of identification:

Alkaline battery (LR20,LR14,LR6,LR03,LR1,6LF22,6LR61)

- (c) Recommended use of the chemical and restrictions on use:

See 7.Handling and storage

- (d) Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:

Manufacturer: Maxell Asia,Ltd.

Address: Unit Nos.03B-06,13/F, 909CheungShaWanRoad,Kowloon,HongKong

Tel: + (852) 2730 9243

Fax: + (852) 2735 6250

- (e) Emergency phone number.

Tel: + (852) 2730 9243

### 2. Hazard(s) identification

- (a) Classification of the chemical in accordance with paragraph (d) of §1910.1200

Chemical battery (Primary)

- (b) Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200. (Hazard symbols may be provided as graphical reproductions in black and white or the name of the symbol, e.g., flame, skull and crossbones)

N/A

- (c) Describe any hazards not otherwise classified that have been identified during the classification process

Improper handling of the battery could lead to distortion, leakage\*, overheating, or explosion and cause human injury or equipment trouble. Especially touch with liquid



leaked out of battery could cause injury like a loss of eyesight. . Please strictly observe safety instructions.

(\* Leakage is defined as an unintended escape of liquid from a battery.)

- (d) Where an ingredient with unknown acute toxicity is used in a mixture at a concentration  $\geq 1\%$  and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required

No such an ingredient is contained in the product.

### 3. Composition/information on ingredients

Except as provided for in paragraph (i) of §1910.1200 on trade secrets:

**For Substances:**

- (a) Chemical name  
 (b) Common name and synonyms  
 (c) CAS number and other unique identifiers  
 (d) Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance

Chemical Name	Common Name and Synonyms	CAS #	Content (Wt %)
Manganese Dioxide	MnO <sub>2</sub>	1313-13-9	35 to 45
Potassium Hydroxide	KOH	1310-58-3	5 to 15
Graphite	C	7782-42-5	1 to 5
Zinc	Zn	7440-66-6	10 to 20
Steel	steel	12597-69-2	10 to 15

**For Mixtures**

In addition to the information required for substances:

- (a) The chemical name and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance with paragraph (d) of §1910.1200 and
- (1) Are present above their cut-off/concentration limits; or
  - (2) Present a health risk below the cut-off/concentration limits.



No such an ingredient is contained in the product.

- (b) The concentration (exact percentage) shall be specified unless a trade secret claim is made in accordance with paragraph (i) of §1910.1200, when there is batch-to-batch variability in the production of a mixture, or for a group of substantially similar mixtures (See A.0.5.1.2) with similar chemical composition. In these cases, concentration ranges may be used.

No such a situation would happen during the production from batch to batch.

For All Chemicals Where a Trade Secret is claimed

Where a trade secret is claimed in accordance with paragraph (i) of §1910.1200, a statement that the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required.

#### 4. First-aid measures

- (a) Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion

Inhalation	<u>Explosion may make fumes of alkaline solution and the fumes could cause respiratory irritation. Rinse by plenty of water and consult a physician.</u>
Skin Contact	<u>Immediately flush skin with plenty of water. If itch or irritation by chemical burn persists, consult a physician.</u>
Eye Contact	<u>Immediately flush eye with plenty of water for at least 15 minutes. Consult a physician immediately</u>
Ingestion	<u>If swallowing a battery, consult a physician immediately.</u> <u>If contents come into mouth, immediately rinse by plenty of water and consult a physician.</u>

- (b) Most important symptoms/ effects, acute and delayed

NA.

- (c) Indication of immediate medical attention and special treatment needed, if necessary

Wash with clean water immediately.

#### 5. Fire-fighting measures

- (a) Suitable (and unsuitable) extinguishing media.

Any class of extinguisher is effective.

- (b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion



products).

The batteries could be exploded by heat of fire and alkaline solution could disperse.

(c) Special protective equipment and precautions for fire-fighters.

Use self-contained breathing apparatus and full gear not to inhale or not to come into eyes or skin with harmful alkaline mist.

## 6. Accidental release measures

(a) Personal precautions, protective equipment, and emergency procedures.

Wear protective clothing. Keep unprotected persons away.

(b) Methods and materials for containment and cleaning up.

When the liquid leaks out of the battery, absorb and wipe it with dry cloth.

If touching the liquid, Observe Section 4 - First Aid Measures

## 7. Handling and storage

(a) Precautions for safe handling.

● **Never swallow.**

If swallowed, see Section 4 - First Aid Measures.

● **Never touch the liquid leaked out of battery.**

If the liquid comes into eyes, or mouth, see Section 4 - First Aid Measures.

● **Never short-circuit the battery.**

Do not allow the positive and negative terminals to short-circuit. Never carry or keep battery with metal goods such as a necklace or a hairpin. Otherwise battery could cause distortion, leakage, overheating, or explosion of the battery.

● **Never charge.**

The battery is not designed to be charged by any other electrical source. Charging could generate gas and internal short-circuiting, leading to distortion, leakage, overheating, or explosion.

● **Never expose to open flames.**

Exposing to flames could cause explosion of the battery.

● **Never heat.**

Heating the battery more than 100 degree centigrade could increase the internal pressure leading to distortion, leakage, overheating, or explosion.

● **Never disassemble or deform.**

Disassembly or deforming of the battery could cause the leakage, overheating, or



explosion due to an internal short-circuits..

(b) Conditions for safe storage, including any incompatibilities.

Never let the battery contact with water. Never store the battery in hot and high humid place.

## 8. Exposure controls/personal protection

(a) OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

N/A

(b) Appropriate engineering controls.

Do not disassemble the product without professional basis.

(c) Individual protection measures, such as personal protective equipment.

No special equipment is required for handling, carrying or using the product.

The chemical materials concluded in the Product is sealed up, thus being stable, safe and eco-friendly under common conditions.

## 9. Physical and chemical properties

(a) Appearance (physical state, color, etc.)	:	LR20,LR14,LR6,LR03,LR1 : cylindrical shape with primary cell of 1.5V nominal voltage. 6LF22, 6LR61: prismatic shape with primary cell of 9V nominal voltage.
(b) Odor	:	not applicable
(c) Odor threshold	:	not applicable
(d) pH	:	not applicable
(e) Melting point/ freezing point	:	not applicable
(f) Initial boiling point and boiling range	:	not applicable
(g) Flash point	:	not applicable
(h) Evaporation rate	:	not applicable
(i) Flammability (solid, gas)	:	not applicable



- (j) Upper/lower flammability or explosive limits : not applicable
- (k) Vapor pressure : not applicable
- (l) Vapor density : not applicable
- (m) Relative density : not applicable
- (n) Solubility(ies) : not applicable
- (o) Partition coefficient: n-octanol/ water : not applicable
- (p) Auto-ignition temperature : not applicable
- (q) Decomposition temperature : not applicable
- (r) Viscosity : not applicable

## 10. Stability and reactivity

- (a) Reactivity

N/A

- (b) Chemical stability

Stable (performance deterioration depends on circumstance.)

- (c) Possibility of hazardous reactions

No.

- (d) Conditions to avoid (e.g., static discharge, shock, or vibration)

See 7.Handling and storage

- (e) Incompatible materials

No.

- (f) Hazardous decomposition products

No.

## 11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects, including

- (a) Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)



As the contents are sealed in the battery case, there is no toxicity.

- (b) Symptoms related to the physical, chemical and toxicological characteristics

People might feel itching, if the inner liquid splashes onto skin.

- (c) Delayed and immediate effects and also chronic effects from short- and long-term exposure

N/A

- (d) Numerical measures of toxicity (such as acute toxicity estimates)

N/A

- (e) Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA

No.

## 12. Ecological information (Non-mandatory)

- (a) Ecotoxicity (aquatic and terrestrial, where available): N/A

- (b) Persistence and degradability: N/A

- (c) Bio-accumulative potential: N/A

- (d) Mobility in soil: N/A

- (e) Other adverse effects (such as hazardous to the ozone layer) : If the battery is disposed in land or water, battery case may be corroded and the liquid may leak out of the battery. Information regarding ecological concerns has not been reported.

## 13. Disposal considerations (Non-mandatory)

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

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.

## 14. Transport information (Non-mandatory)

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 Maxell 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 International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulations 62nd edition, 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 (62nd Edition)
ICAO	Not regulated

All Maxell 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 IATA 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.

- (a) UN number: N/A
- (b) UN proper shipping name: N/A
- (c) Transport hazard class(es) : N/A
- (d) Packing group, if applicable: N/A
- (e) Environmental hazards (e.g., Marine pollutant (Yes/No)) No.
- (f) Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

The product can be treated as ordinary goods in transportation;

Products in bulk shall be packed in inner packaging in such a manner that can prevent movement or short-circuit effectively.

- (g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Avoid high-temperature, high-humidity condition.

## 15. Regulatory information (Non-mandatory)

NA=Not Applicable





Safety, health and environmental regulations specific for the product in question.

The product is complying with the environmental requirements in EU BATTERY DIRECTIVE (2006/66/EC) and its amendments 2013/56/EU.

**16. Other information, including date of preparation or last revision**


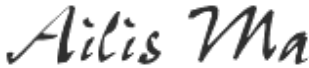

The date of preparation of the SDS or the last change to it

This Safety Date Sheets (SDS) is issued on 1 Jan, 2021 according to requirements of the USA's OSHA Standard 1910.1200 App D.

If you want further information, please contact Maxell sales representative.



## Safety Data Sheets (SDSs)

Client	Q-Lite Industrial Limited
Add. of Client	2/F,Bldg 1, HengGuangYao Ind. Zone, 113 Yonghe Road, Fuyong Town Shenzhen, China CN-518103
Description	Alkaline Battery
Model /Type	LR6-AA
Manufacturer	Q-Lite Industrial Limited
Add. of Manufacturer	2/F,Bldg 1, HengGuangYao Ind. Zone, 113 Yonghe Road, Fuyong Town Shenzhen, China CN-518103
Nominal Voltage	1.5V
Weight	23.0g
Date of Receipt	2020-03-13
Laboratory	Dongguan ZRLK Testing Technology Co., Ltd.
Address	Building D, No.2, Jinyuyuan Mansion, No.18, Industrial West Road, Songshan Lake High-tech Industrial Development Zone, Dongguan, Guangdong, China
Approved Signatory	Maggie.Gao 
Inspected by	Ailis.Ma 
Censored by	Lahm Peng 



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product name: Alkaline Battery

Model: LR6-AA

### Other means of identification

Synonyms:none

### Recommended use of the chemical and restrictions on use

Recommended Use:Used in portabl electronic equipments;

Uses advised against:

- a) Do not dismantle, open or shred alkaline battery.
- b) Do not expose alkaline battery to heat or fire. Avoid storage in direct sunlight.
- c) Do not short-circuit a alkaline battery. Do not store alkaline battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.
- d) Do not remove a alkaline battery from its original packaging until required for use.
- e) Do not subject alkaline battery to mechanical shock.
- f) In the event of a alkaline battery leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- g) Observe the plus (+) and minus (-) marks on the alkaline battery and equipment and ensure correct use.
- h) Battery usage by children should be supervised.
- i) Seek medical advice immediately if an alkaline battery has been swallowed.
- j) Keep batteries clean and dry.
- k) When possible, remove the battery from the equipment when not in use.
- l) Dispose of properly.

### Details of the supplier of the safety data sheet:

Supplier Name: Q-Lite Industrial Limited

Address: 2/F,Bldg 1, HengGuangYao Ind. Zone, 113 Yonghe Road, Fuyong Town Shenzhen, China CN-518103

Telephone number of the supplier: 0086-0755-82209288

E-mail address: Gourdin.huang@q-liteindustrial.com

Code postal: 518103

### Emergency telephone number

Company Emergency Phone Number: 0086-13602641993

## 2. HAZARDS IDENTIFICATION

### Classification

Acute toxicity - Dermal	Category 3
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

**GHS Label elements, including precautionary statements****Danger****Hazard statements**

Toxic in contact with skin

Causes serious eye irritation

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

**Precautionary statements-Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

**Skin**

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off immediately all contaminated clothing and wash it before reuse

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other information**

harmful if swallowed. Very toxic to aquatic life with long lasting effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterisation: Mixtures****Description:**

Product: Consisting of the following components.

Common Chemical Name	Concentration (%)	CAS Number
Manganese dioxide	38	1313-13-9
Potassium hydroxide	4	1310-58-3
Graphite	5	7782-42-5
Iron	31.7	7439-89-6
Zinc	9.8	7440-66-6
Zinc oxid	1	1314-13-2
Carbon	5	7440-44-0
Copper	5	7440-50-8
Carbonate, methyl ethyl	0.5	623-53-0

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

### 4. FIRST-AID MEASURES

**First aid measures**

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact** Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

**Swallowing** Do not induce vomiting. Get medical attention.

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

Notes to Physician Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

CO<sub>2</sub>, dry chemical powder, water spray.

Unsuitable Extinguishing Media: No information available.

### **Specific Hazards Arising from the Chemical**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide(CO)

Carbon dioxide

Other irritating and toxic gases.

### **Hazardous Combustion Products**

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.

### **Special hazards arising from the substance or mixture:**

The leaking electrolyte may be corrosive. Under the conditions of short-circuited, overcharged, overdischarged, punctured, crushed, put into the fire and exposed to a temperature higher than that specified by the manufacturer (100°C), the battery may burn or explode.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions, protective equipment and emergency procedures**

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

### **Environmental precautions**

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

### **Methods and material for containment and cleaning up**

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.

Wash thoroughly after handling. Use this material with adequate ventilation.

The product is not explosive.

### Conditions for safe storage, including any incompatibilities

The storage area should be clean, cool, dry, ventilated and weatherproof. Incompatibilities: strong oxidizing agents, corrosives and foods. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.

For normal storage, the temperature should be between +10°C and +25°C and never exceed +30°C. Extremes of humidity (over 95% and below 40% relative humidity) for sustained periods should be avoided since they are detrimental to both batteries and packaging. Batteries should therefore not be stored next to radiators or boilers, nor in direct sunlight.

The above recommendations are equally valid for storage conditions during prolonged transit. Thus, Batteries shall be stowed away from ships' engines and not left for long periods in unventilated metal box cars during summer.

Incompatible Products None known.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters

none

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962(11th Cir., 1992).

### Appropriate engineering controls

Engineering Measures Showers

Eyewash stations

Ventilation systems

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.

### Individual protection measures, such as personal protective equipment

Eye/Face Protection:



Tightly sealed goggles

Body protection:

Protective work clothing.

Skin protection:



### Protective gloves

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material:**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Form: Cylindrical	
	Color: Silvery	
	Odour: Monotony	
	Odor Threshold: No information available	
Change in condition:		
pH, with indication of the concentration		Not determined.
Melting point/freezing point		Not determined.
Initial boiling point and Boiling range:		Not determined.
Flash Point		Not determined.
Evaporation rate		Not determined.
Flammability (solid, gas)		Not determined.
Upper/lower flammability or explosive limits		Not determined.
Vapor Pressure:		Not determined.
Vapor Density:		Not determined.
relative density:		Not determined.
Solubility in Water:		Not determined.
Solubility in other solvents		Not determined.
n-octanol/water partition coefficient		Not determined.
Auto-ignition temperature		Product is not self-igniting.



Decomposition temperature	Not determined.
Odour threshold	Not determined.
Evaporation rate	Not determined.
Viscosity	Not determined.
Other Information	No further relevant information available.

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage and handling conditions (see section 7, Handling and storage).

**Chemical stability:** Stable under normal conditions of use, storage and transport.

**Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of Hazardous Reactions:** None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

**Conditions to avoid:** Strong heating, fire, Incompatible materials.

**Incompatible materials:** Strong oxidizing agents. Strong acids. Base metals.

**Hazardous Decomposition Products:** Carbon oxides, Other irritating and toxic gases.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available.

**Skin corrosion/irritation:** No irritant effect.

**Serious eye damage/irritation:** Cause serious eye irritation.

**Respiratory or skin sensitization:** No sensitizing effects known.

**Specific target organ system toxicity:** No information available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** No information available.

## 12. Ecological Information

### Toxicity:

Acquatic toxicity:

No further relevant information available.

**Persistence and degradability:** No further relevant information available.

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

**Other adverse effects:** No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Recommendation: Must not be disposed together with household garbage.

Do not allow product to reach sewage system

**Uncleaned packaging:**

Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

**Land transport**

ADR/RID class: Not regulated.

**Maritime transport**

Non-Hazardous for sea transport: Non-hazardous for sea transport.

**Air transport**

Not restricted to IATA DGR according to special provision A123.

The Panasonic alkaline battery according to SP A 123 of the 2018 IATA Dangerous Goods regulations 59th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Panasonic alkaline battery.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The Nickel-cadmium rechargeable batter having the potential of a dangerous evolution of heat must be 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) Accidental activation.

The words “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.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

## 15. REGULATORY INFORMATION

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

EU Regulation:

**Authorisations:** No information available.

**Restrictions on use:** No information available.

**Regulatory information**

CAS No.	EU (EINECS)	US (TSCA)	Japan (ENCS)	Canada (DSL/ NDSL)	Austrlia (AICS)	Korea (ECL)	China (IECSC)
1313-13-9	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
1310-58-3	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7782-42-5	Listed	Listed	Listed	DSL	Listed	Listed	Listed



7439-89-6	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
7440-66-6	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
1314-13-2	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7440-44-0	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7440-50-8	Listed	Listed	Listed	DSL	Listed	Listed	Listed
623-53-0	Listed	Listed	Listed	DSL	Listed	Listed	Listed

**Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

## 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant phrases:**

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

H302: Harmful if swallowed.

\*\*\*\*\*End of SDS\*\*\*\*\*