SAFETYDATASHEET

HCS-2012 APPENDIX D TO §1910.1200

Version 1

Product Name Kitco ALKALINE BATTERY - LR6

NO:20220102 Issue Date 20-Jan-2019 Revision date 3-Jan-2022

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Kitco ALKALINE BATTERY – LR6
Chemical Name Kitco ALKALINE BATTERY

Other means of identification

Product Code Kitco LR6 1.5V 2600mAh

Recommended use of the chemical and restrictions on use

Recommended Use Power supply

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Suzhou Jintuo Electronics Co.,Ltd

Address No.988, East Chengbei Road, Pingjiang New Town, Suzhou city,

jiangsu,china.

Postal Code 215000

Phone +86 13812916796

E-mail jintuodianzi@foxmail.com.cn

Emergency telephone number

+86 13812916796

2. HAZARDS IDENTIFICATION

GHS Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Symbols/Pictograms None Signal word None Hazard Statements None

Precautionary Statements

Prevention None
Response None
Storage None
Disposal None

Hazards not otherwise classified (HNOC)

No information available

Unknown acute toxicity

.?% of the mixture consists of ingredient(s) of unknown toxicity

Page 1/10



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Mixture

Chemical Name	CAS No	Weight-%
Manganese dioxide	1313-13-9	15 - 40
Zinc	7440-66-6	15 - 40
Steel	12597-69-2	10 - 30
Zinc oxide	1314-13-2	3 - 7
Graphite	7782-42-5	1 - 5
Copper	7440-50-8	1 - 5
Acrylic resin	9003-01-4	0.1 - 1
Water	7732-18-5	0.1 - 1
Potassium hydroxide	1310-58-3	0.1 - 1
Polypropylene	9003-07-0	0.1 - 1
Calcium stearate	1592-23-0	0.1 - 1
Indium hydroxide (In(OH)3)	20661-21-6	0.1 - 1

4. FIRST AID MEASURES

Description of first aid measures

General advice Remove contaminated clothing and shoes. If symptoms persist, call a physician. Inhalation

Not an expected route of exposure. IF INHALED: Remove victim to fresh air

and keep at rest in a position comfortable for breathing.

Skin Contact Wash hands thoroughly after handling. . Eve contact Not an expected route of exposure...

Ingestion Rinse mouth Get medical attention Never give anything by mouth to an

unconscious person

Most important symptoms and effects, both acute and delayed

No information available

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors

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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas

Ensure adequate ventilation, especially in confined areas

Remove all sources of ignition

Use personal protection recommended in Section 8

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so Pick up and transfer to properly labeled containers

Avoid release to the environment

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice Ensure adequate ventilation, especially in confined areas

Avoid creating dust

Avoid contact with eyes

Wash thoroughly after handling

Use personal protection recommended in Section 8

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place Keep away from heat

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Denmark	European Union
Manganese dioxide (CAS #:	TWA: 0.02 mg/m ³ Mn	(vacated) Ceiling: 5	IDLH: 500 mg/m ³ Mn	TWA: 0.2 mg/m ³	-
1313-13-9)	TWA: 0.1 mg/m ³ Mn	mg/m³	TWA: 1 mg/m ³ Mn		
		Ceiling: 5 mg/m ³ Mn	STEL: 3 mg/m ³ Mn		
Zinc oxide (CAS #: 1314-13-	STEL: 10 mg/m ³	TWA: 5 mg/m ³ fume	IDLH: 500 mg/m ³	TWA: 4 mg/m ³	-
2)	respirable fraction	TWA: 15 mg/m³ total	Ceiling: 15 mg/m³ dust		
	TWA: 2 mg/m ³	dust	TWA: 5 mg/m ³ dust		
	respirable fraction	TWA: 5 mg/m ³	and fume		
		respirable fraction	STEL: 10 mg/m ³ fume		
		(vacated) TWA: 5 mg/m³ fume			
		(vacated) TWA: 10 mg/m³ total dust			
		(vacated) TWA: 5			
		mg/m³ respirable			
		fraction			
		(vacated) STEL: 10			
		mg/m ³ fume			
Graphite (CAS #: 7782-42-5)	TWA: 2 mg/m ³	-	-	TWA: 2.5 mg/m ³	-
	respirable fraction all				
	forms except graphite				
	fibers				
Copper (CAS #: 7440-50-8)	TWA: 0.2 mg/m ³ fume	-	-	TWA: 1.0 mg/m ³	-
	TWA: 1 mg/m ³			TWA: 0.1 mg/m ³	
	Cu dust and mist				
Potassium hydroxide (CAS	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	-
#: 1310-58-3)		mg/m³			
Calcium stearate (CAS #:	TWA: 10 mg/m ³	-	-	-	-
1592-23-0)	except stearates of				
	toxic metals				
Indium hydroxide (In(OH)3) (CAS #: 20661-21-6)	TWA: 0.1 mg/m ³ ln	-	-	TWA: 0.1 mg/m ³	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Manganese dioxide (CAS #: 1313-13-9)	TWA: 0.3 mg/m ³	-	TWA: 0.2 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.2 mg/m³ TWA: 0.02 mg/m³ Ceiling / Peak: 1.6 mg/m³	-
				Ceiling / Peak: 0.16 mg/m³ TWA: 0.5 mg/m³	
Zinc (CAS #: 7440-66-6)		-	-	TWA: 0.1 mg/m ³ TWA: 2 mg/m ³ Ceiling / Peak: 0.4 mg/m ³ Ceiling / Peak: 4 mg/m ³	-
Zinc oxide (CAS #: 1314-13- 2)	TWA: 0.5 mg/m³	TWA: 5 mg/m ³ TWA: 10 mg/m ³	TWA:2mg/m ³ STEL: 10 mg/m ³	TWA: 1 mg/m³ TWA:0.1 mg/m³ TWA: 2 mg/m³ Ceiling / Peak: 1 mg/m³ Ceiling / Peak: 0.4 mg/m³ Ceiling / Peak: 4 mg/m³	-
Potassium hydroxide (CAS #: 1310-58-3)	-	STEL: 2 mg/m ³	STEL: 2 mg/m ³ Ceiling: 2 mg/m ³	-	-
Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Manganese dioxide (CAS #: 1313-13-9)	TWA: 0.3 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.5 mg/m ³	-
Zinc oxide (CAS #: 1314-13- 2)	STEL: 10 mg/m ³ TWA: 5 mg/m ³	STEL: 10 mg/m ³ TWA: 2 mg/m ³	STEL: 10 mg/m ³ TWA: 2 mg/m ³	STEL: 3 mg/m ³ TWA: 3 mg/m ³	-
Potassium hydroxide (CAS #: 1310-58-3)	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³	TWA: 2 mg/m ³	-
Calcium stearate (CAS #: 1592-23-0)	-	TWA: 10 mg/m ³	TWA: 10 mg/m ³	-	-
Chemical Name	Norway	United Kingdom	Australia	Austria	Belgium
Manganese dioxide (CAS #: 1313-13-9)	TWA: 1 mg/m ³ TWA: 0.1 mg/m ³ STEL: 3 ppm STEL: 0.3 mg/m ³	TWA: 0.5 mg/m ³	1 mg/m³	STEL 2 mg/m ³ TWA: 0.5 mg/m ³	-
Zinc oxide (CAS #: 1314-13- 2)	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	10 mg/m ³ 5 mg/m ³ 10 mg/m ³ STEL	TWA: 5 mg/m ³	-
Graphite (CAS #: 7782-42-5)	-	-	3 mg/m ³	STEL 10 mg/m ³ TWA: 5 mg/m ³	-
Copper (CAS #: 7440-50-8)	-	-	1 mg/m ³ 0.2 mg/m ³	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA: 1 mg/m ³ TWA: 0.1 mg/m ³	-
Potassium hydroxide (CAS #: 1310-58-3)	Ceiling: 2 mg/m ³	STEL: 2 mg/m ³	2 mg/m³ Peak	TWA: 2 mg/m ³	-
Calcium stearate (CAS #: 1592-23-0)	-	-	10 mg/m ³	-	-
Indium hydroxide (In(OH)3) (CAS #: 20661-21-6)	-	-	0.1 mg/m ³	STEL 0.2 mg/m ³ TWA: 0.1 mg/m ³	-

Appropriate engineering controls

Showers

Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations.

Respiratory protection must be provided in accordance with current local

regulations.

Hand Protection Wear protective gloves.

Eye/face protection
No special technical protective measures

are necessary.

Skin and body protection Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Solid

Color metallic Odor Odorless **Odor Threshold** Not determined Not determined Melting point/freezing point Not determined Boiling point / boiling range Not determined Flash point Not applicable **Evaporation rate** Not determined Flammability (solid, gas) Not determined Flammability Limit in Air Not determined Vapor Pressure Not applicable Vapor density Not determined **Density** Not determined Relative density Not determined **Bulk density** Not determined Specific gravity Not determined Water solubility Not determined Partition coefficient (LogPow) Not determined Autoignition temperature Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined Dynamic viscosity Not determined **Explosive properties** Not an explosive

Other information

No information available

Oxidizing properties

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

Not determined

Chemical stability

Stable under normal conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Strong heating. Incompatible materials

Incompatible materials

Strong acids Strong bases Strong oxidizing agents

Hazardous Decomposition Products

None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system

Eye contact Contact with eyes may cause irritation
Skin Contact Substance may cause slight skin irritation

Ingestion Ingestion may cause irritation to mucous membranes

Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Manganese dioxide (CAS #: = 9000 mg/kg (Rat) 1313-13-9)		-	-
Zinc oxide (CAS #: 1314-13-2)	> 5000 mg/kg (Rat)	-	-
Copper (CAS #: 7440-50-8)	> 2500 mg/kg bw(rat)	> 2000 mg/kg bw(rat)	=1.03 mg/L/4 h(rat)
Acrylic resin (CAS #: 9003-01-4) 10250 mg/kg (rat, carbomer 910) 4100 mg/kg (rat, carbomer 943)		3 g/kg (rat, carbomer 910)	1.71 mg/L (rat)
Potassium hydroxide (CAS #: 1310-58-3)	= 333 mg/kg (Rat)	-	-
Calcium stearate (CAS #: 1592- 23-0)	> 10 g/kg (Rat)	-	-
Polypropylene (CAS #: 9003- 07-0)	>5 g/kg	-	-

Skin corrosion/irritation

Non-irritating to the skin

Serious eye damage/eye irritation

No eye irritation

Sensitization

No information available

Germ cell mutagenicity

No information available

Carcinogenicity

No information available

Reproductive toxicity

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration hazard

No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Zinc (CAS #: 7440-66-6)	0.11 - 0.271 mg/L/96h	2.16 - 3.05 mg/L/96h	0.139 - 0.908 mg/L/48h Daphnia
	Pseudokirchneriella subcapitata	Pimephales promelas flow-	magna Static
	static	through	
	0.09 - 0.125 mg/L/72h	0.211 - 0.269 mg/L/96h	
	Pseudokirchneriella subcapitata	Pimephales promelas	
	static	semi-static	
		2.66: mg/L/96h Pimephales	
		promelas static	
		30 mg/L/96h Cyprinus carpio	
		0.45 mg/L/96h Cyprinus carpio	
		semi-static	
		7.8 mg/L/96h Cyprinus carpio	
		static	
		3.5 mg/L/96h Lepomis	
		macrochirus static	
		0.24 mg/L/96h Oncorhynchus	
		mykiss flow-through	
		0.59 mg/L/96h Oncorhynchus	
		mykiss semi-static	
		0.41 mg/L/96h Oncorhynchus	
		mykiss static	
Zinc oxide (CAS #: 1314-13-2)	-	1.1 mg/l/96h	0.098 mg/l/48h Daphnia magna
Copper (CAS #: 7440-50-8)	0.031 - 0.054 mg/L/96h	-	-
	Pseudokirchneriella subcapitata		
	static		
	0.0426 - 0.0535 mg/L/72h		
	Pseudokirchneriella subcapitata		
	static		
Potassium hydroxide (CAS #:	-	80mg/L/96h Gambusia affinis	-
1310-58-3)		static	

Persistence and degradability

No information available

Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
Manganese dioxide (CAS #: 1313-13-9)	<0

Mobility in soil

No information available

Other adverse effects No

information available

Product Name Kitco ALKALINE BATTERY - LR6

Revision date 3-Jan-2022

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws

and regulations

Contaminated packaging Dispose of in accordance with federal, state and local regulations This product contains one or more substances that are listed with the State of California as a hazardous waste.

California Hazardous Waste Status
Ignitable powder Toxic
Toxic
Toxic
T : 0
Toxic Corrosive
Toxic
IOAIO

14. TRANSPORT INFORMATION

The batteries are considered to be "Dry cell" batteries and are unregulated for purpose of transportation by the U.S. DOT, ICAO, IATA and IMDG. The only DOT requirement for shipping these batteries is special provision 130 which states: "Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents the dangerous evolution of heat (For example, by the effective insulation of exposed terminals). The only requirement for shipping these batteries by ICAO and IATA is Special Provision A123 which states: "An electrical battery or battery powered device having the potential of dangerous evolutions of heat that is not prepared so as to prevent 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) is forbidden from transportation." The international Maritime Dangerous Goods Code (IMDG) regulate them for ocean transportation under Special Provision A123which says: Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provision of this Code provided the batteries are securely packed and protected against short-circuits. Example of such batteries are: alkali-manganese, zinc carbon, nickel metal hydride and nickel-cadmium batteries. Such battery have been packed in inner packaging in such a manner as to effectively prevent short circuit and movement that could lead to short-circuit.

References: IATA Dangerous Goods Regulations 59th Edition(2018)

IMO International Maritime Dangerous Goods Code 2016Edition

DOT / IMDG / IATA

UN/ID No.

Proper shipping name
Hazard Class
Packing Group

Not regulated
Not regulated
Not regulated

Special precautionsNo information available

Marine pollutantNot applicableUN/ID No.Not RegulatedUN/ID No.Not RegulatedUN/ID No.Not Regulated

15. REGULATORY INFORMATION

International Inventories

Component	AICS	DSL/NDSL	EINECS/ELI	ENCS	IECSC	KECL	PICCS	TSCA
			NCS					

Manganese dioxide 1313-13-9 (15 40)	Х	X	X	Х	Х	X	Х	Х
Zinc 7440-66-6 (15 40)	Х	X	Х	-	Х	X	Х	Х
Zinc oxide 1314-13-2 (3 - 7)	Х	Х	Х	Х	Х	Х	Х	Х
Graphite 7782-42-5 (1 - 5)	Х	Х	Х	-	Х	Х	Х	Х
Copper 7440-50-8 (1 - 5)	Х	Х	Х	-	Х	Х	Х	Х
Acrylic resin 9003-01-4 (0.1 1)	Х	Х	-	Х	Х	Х	Х	Х
Water 7732-18-5 (0.1 1)	Х	Х	Х	-	Х	Х	Х	Х
Potassium hydroxide 1310-58-3 (0.1 1)	Х	Х	Х	Х	Х	Х	Х	Х
Polypropylene 9003-07-0 (0.1 1)	Х	Х	-	Х	Х	Х	Х	Х
Calcium stearate 1592-23-0 (0.1 1)	Х	Х	Х	Х	Х	Х	Х	Х
Indium hydroxide (In(OH)3) 20661-21-6 (0.1 1)	Х	Х	-	-	-	-	-	-

[&]quot;-" Not Listed

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Manganese dioxide - 1313-13-9	1.0
Zinc - 7440-66-6	1.0
Zinc oxide - 1314-13-2	1.0

SARA 311/312 Hazard Categories

Does not apply

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc 7440-66-6	-	X	X	-
Zinc oxide 1314-13-2	-	Х	-	•

[&]quot;X" Listed

Copper 7440-50- 8	-	Х	Х	-
Potassium hydroxide 1310-58-3	1000 lb	-	-	Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Zinc 7440-66-	1000 lb	-	RQ 454 kg final RQ
6			RQ 1000 lb final RQ
Potassium hydroxide	1000 lb	-	RQ 1000 lb final RQ
1310-58-3			RQ 454 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

This product may contain substances regulated by state right-to-know regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Manganese dioxide 1313-	X	-	X
13-9			
Zinc 7440-66-	X	X	X
6			
Zinc oxide 1314-13-	X	X	X
2			
Potassium hydroxide	X	X	X
1310-58-3			

16. OTHER INFORMATION

Revision Note

Issue Date20-Jan-2019Revision date3-Jan-2022Revision NoteNot applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)

STEL - STEL (Short Term Exposure Limit)

Ceiling - Maximum limit value

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End	af C	Safatu	Data	Chast	
	UI -	oaieiv	Dala	OHEEL	