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SAFETY DATA SHEET

1. INDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Trade name	CentriVet GK Blood Glucose & Ketone Meter
Chemical description/Application	Along with glucose & Ketone test strip, blood glucose & Ketone meter is intended for in vitro quantitative analysis of animal blood glucose concentration and β-Ketone concentration.
Supplier	ACON Biotech Co. Ltd, No.210 Zhenzhong Road, West Lake District, Hangzhou,PR China 310030 Phone: 86-571-8796-3569 Fax: 86-571-8796-3570

2. HAZARDS IDENTIFICATION

Rout of entry Skin-NO

Eye-NO

Inhalation-NO

Ingestion-NO

Hazardous decomposition products When exposed to fire, produces normal products of combustion.

Unusual fire, explosion and reactivity No special hazards known.

hazards

3. COMPOSITION /INFORMATION ON INGREDIENTS

This product does not contain any chemicals. None of the ingredients of this material meet the definition of "Hazardous Chemical" according to Directive 1999/45/EC.

4. FIRST–AID MEASURES

Inhalation	Not applicable
Skin contact	Not applicable
Eye contact	Not applicable
Ingestion	Not applicable

5. FIRE FIGHTING MEASURES

Extinguishing media	CO2, foam, water
Special fire fighting procedure	Not applicable.
Additional information	None.

6. ACCIDENTAL RELEASE MEASURES

In case of leak current There is no current leakage potential under normal use. If happened, it is

not harmful since it is a battery-based meter

Additional information None.

7. HANDLING AND STORAGE

Handling Handle as directed in the package insert.

Storage -20-60℃

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits Not applicable

Engineering controls Not applicable

Personal protection

Hand None required.

Eye None required.

Respiratory None required.

9. PHSICAL-CHEMICAL PROPERTIES

Appearance Slot in the top, large LCD display.

Color White for housing, dark gray for buttons.

Odour Not applicable

Boiling point(℃) Not applicable

Melting Point(℃) Not applicable

Flash point(℃) Not applicable

Autoignition temperature(℃) Not applicable

Density(kg/m3) Not applicable

Viscosity Not applicable

pH value Not applicable

Solubility in water Not dissolve

10. STABILITY AND REACTIVITY

Stability Stable

Conditions to avoid Acids, strong oxidizing agents.

Temperature below -20℃ and above 60℃

Materials to avoid	Not applicable
Hazardous decomposition products	Not applicable

11. TOXICOLOGICAL INFORMATION

No toxicological information available.

12. ECOLOGICAL INFORMATION

No ecological information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods	Do not dispose along with household waste
Waste category	Use appropriate waste codes based on ingredients.

14. TRANSPORT INFORMATION

This product is ordinary goods and no other dangerous properties

15. REGULATORY INFORMATION

European labeling in accordance with EC Directives

Hazard Symbols	Not applicable.
Safety phrases	Keep out of the reach of children.
Risk Phrases	Not applicable.

16. OTHER INFORMATION

The information contained in this document is believed to be correct as of data shown.

This product is for in vitro diagnostics use only.

Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Name of Sample: Li-Mn Battery	**Type/Model:** CR2032 3.0V 210mAh
Company Name: GuangZhou TianQiu Enterprise Co., Ltd.	**address:** 9/F, TianQiu Business Building No.16-30, He Yi Rd, San Yuan Li Ave, GuangZhou, China
Tel: 020-36322277	**Fax:** 0769-81210202
E-mail: **Tianzhen10@126.com**	**Emergency Telephone:** **020-36322277**

Section 2 – Hazards Identification

Fatalness grade:

In accordance with Regulation (EC) No 1272/2008, the sample is divided into dangerous article.

Invasion route:

Skin contact: Contact with battery electrolyte may cause burns and skin irritation.

Eyes contact: Contact with battery electrolyte may cause burns. Eye damage is possible.

Inhalation: Inhalation of vapors or fumes released due to heat or a large number of leaking batteries may cause respiratory and eye irritation.

Ingestion: Ingestion of battery contents may cause mouth, throat and intestinal burns and damage.

Health hazards:

The chemical are contained in a sealed can. Risk of exposure occurs only if the battery is mechanically or electrically abused.

Environment hazards:

Don't abandon the battery into environment.

Burn & burst danger:

Do not dispose of battery in fire and recharge battery-may explode. Do not short-circuit battery.

Section 3 – Composition/Information on Ingredient

Chemical Name	Molecular formula	CAS No.	Weight (%)
Iron	Fe	7439-89-6	48.0
Manganese Dioxide	MnO_2	1313-13-9	34.8
Perchloric Acid, Lithium salt	$LiCLO_4$	7791-03-9	3.99
Polypropylene	$(C_3H_6)x$	9003-07-0	3.43
Propylene Carbonate	$C_4H_6O_3$	108-32-7	3.0
Polytetrafluoroethylene	$(C_2F4)n$	9002-84-0	1.7
Lithium	Li	7239-93-2	1.9
Graphite	C	7782-42-5	1.7
Ethylene Glycol Dimethyl Ether	$C_4H_{10}O_2$	110-71-4	1.48
Mercury	Hg	7439-97-6	< 0.0001
Cadmium	Cd	7440-43-9	< 0.001
Lead	Pb	7469-92-1	< 0.001

Abbreviation: CAS No. is Chemical Abstract Service Registry Number.

Section 4 - First Aid Measures

Eye

If the battery is leaking and the contained material contact the eyes, flush the eyes with plenty of water or saline water at least 15 minutes, get medical aid at once.

Skin

If the battery is leaking and the contained material contact the skin, Remove contaminated clothes quickly and rinse the skin with plenty of water at least 15minutes, if irritation or pain persist ,get medical aid at once

Inhalation

If the battery is leaking, remove to fresh air immediately, Keep the respiratory tract smooth. Use oxygen if available .Get medical aid

Ingestion

If the battery is leaking and the contained material is ingest, rinse mouth and surrounding area with clear water at once .Get medical at once.

Section 5 - Fire Fighting Measures

Danger characteristic:

Exposure to excessive heat can cause venting of the liquid electrolyte. Battery may burst and release hazardous decomposition products

Hazardous combustion products:

CO, CO2, metal oxides ,irritating fumes

Fire-Fighting method& media

The stuff must equip with filtermask (full mask) or isolated breathing apparatus. The stuff must wear the clothes which can defense 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 Media: hazy water ,foam power,co2,sandy clay.

Section 6 - Accidental Release Measures

Emergency treatment:

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. The preferred response is to leave the area and allow the batteries to cool and vapors to dissipate. Provide maximum ventilation. Avoid skin and eye contact or inhalation of vapors. Remove spilled liquid with absorbent and incinerate waste.

Section 7 - Handling and Storage

Handling:

1. Do not allow battery terminates to contact each other, or contact with other metals.
2. Pack batteries in separate plastic bags so that the single batteries are not mixed together.
3. Do not expose the battery to excessive physical shock or vibration.
4 Do not immerse, throw, and wet a battery in water.
5 Short-circuiting should be avoided. Short circuit will reduces the life of the battery and can lead to ignition of surrounding materials. Physical contact with to short- circuited battery can cause skin burn.
6. The batteries should not be opened, destroyed or incinerate, since they may leak or rupture and release to the environment the ingredients that they contain in the hermetically sealed container.
7. Place the cell beyond the child packing and container.
8. Never apply battery into a airtight compartment or sealed container.
9. Be sure to use the specified charger for battery, and follow the charging instructions correctly.
10. Do not mix old and new batteries together, neither with Ni-Cd, dry batteries or another manufacturer batteries or product.

Storage:

1. Batteries should be separated from other materials and stored in a noncombustible, well ventilated, sprinkler-protected structure with sufficient clearance between walls and battery stacks.
2. Keep the sample in the cool, dry and well-ventilated place. Do not exposure to direct sunlight for long periods.Keep away from fire and heating sources. Don't kep the samples with oxidizer and acid.
3. Keep batteries in original package until use and do not jumble them.
4. Equip with relevant types and quantities of the extinguishment instruments. The storage place should be equipped with suitable shelter materials for divulgence handling

Section 8 - Exposure Controls, Personal Protection

Maximum admissible concentration:
No standard yet

Monitoring Method:
/

Engineering Control:
Keep away from heat and open flame. Supply with sufficient partial air exhaust. Store in a cool, dry place

Respiratory Protection:
Not necessary under conditions of normal use. Wear self-contained breathing filtermask if the density exceed in the air. Wear breathing apparatus under the condition of emergency rescue or evacuation.

Eyes Protection:
Not necessary under conditions of normal use. Wear protective glasses if handling a leaking or ruptured battery.

Body Protection:
Not necessary under conditions of normal use. Wear fireproofing, gas defense clothes in case of handling a leaking or ruptured battery

Hands Protection:
Not necessary under conditions of normal use. Wear chemical resistant rubber

Other Protections:
No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

Section 9 - Physical and Chemical Properties

Appearance: Physical shape and colour as supplied.

Odour: Odourless

Flash Point: No specific data.

Boiling Point: No specific data.

Melting Point: No specific data.

Proportion: No specific data.

Acid Value: No specific data

PH Value: No specific data.

Density: No specific data.

Permission of solvent inhalation: No specific data.

Ignition temperature: No specific data.

Solubility: Insoluble in water

Section 10 - Stability and Reactivity

Stability:

Stable under normal temperature and pressure.

Distribution of Ban:

strong oxidizer, strong acid and corrosives

Conditions to Avoid:

Fire source, heating source, disassemble, short circuit, immerse in water or overcharge.

Hazardous Polymerization:

No specific data.

Hazardous Decomposition Products:

The battery may release irritative gas once the electrolyte leakage.

Section 11 - Toxicological Information

Acute Toxicity: No information is available.

Sub-acute and Chronic Toxicity: No information is available.

Irritation: The liquid in the battery may irritate eyes and skin with any contact.

Sensitization: The liquid in the battery may cause sensitization to some person.

Mutagenicity: No information is available.

Carcinogenicity: No information is available.

Others: Since the materials in this battery are sealed in the can, the potential for exposure to the components of the battery is negligible, when the battery is used as directed. However technical or electrical abuse of the battery may

Section 12 - Ecological Information

Eco-toxicity: No information is available.

Biodegradable: No information is available.

Non-biodegradable: No information is available.

Bioconcentration or biological accumulation: No information is available.

Other harmful effects: Don't abandon the battery into environment, may cause water or soil pollution.

Section 13 - Disposal Considerations

Waste disposal methods: Refer to National or Local regulations before handling. Disposal of the battery should be performed by permitted, professional disposal firms knowledgeable in National or Local regulations of hazardous waste treatment and hazardous waste transportation. Attention abandoned: the battery should be completely discharged prior to disposal in order to prevent short circuit. The battery contains recyclable materials. It is suggested recycle

Section 14 - Transport Information

Number of dangerous goods: /

UN Number: /

Packaging Mark: /

Packaging Method: /

Transport Attentions: According to PACKING INSTRUCTION 968 ~ 970 of IATA DGR 53rd Edition for transportation, the special provision 188 of IMDG (inc Amdt 35-10). The batteries should be securely packed and protected against short-circuits. Examine whether the package of the containers are integrate and tighten closed before transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain. The transport vehicle and ship must be cleaned and sterilized otherwise it is not allowed to assemble articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. When transported by sea, the assemble place should keep away from bedroom and kitchen, and isolated from the engine room, power and fire source. Under the condition of Road Transportation, the driver should drive in accordance with regulated route, don't stop over in the residential area and congested area.

Section 15 - Regulatory Information

Law Information

ISO 11014-2009: Safety data sheet for chemical products - Content and order of sections. Regulation (EC) No 1272/2008: Classification, Labelling and Packaging of Substances and Mixtures. International Air Transport Association (IATA)

Dangerous Goods Regulations, 53rd Edition

The International Maritime Dangerous Goods (IMDG) Code (inc Amdt 35-10)

Section 16 - Additional Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier, nor any its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist

Sample Reference Photo

注意事项

Important

1. 本报告无检验单位公章、骑缝章无效；

   The test report is invalid without the official stamp and Paging seal of Guangzhou MCM Certification and Testing Co., Ltd.

2. 未经本试验室书面同意，不得部分地复制本报告。

   Nobody is allowed to photocopy or partly photocopy this test report without written permission of Guangzhou MCM Certification and Testing Co., Ltd.

3. 本报告无批准人、审核人及检测人签名无效。

   The test report is invalid without the signatures of Ratifier, Reviewer and Testing engineer.

4. 本报告涂改无效。

   The test report is invalid if altered.

5. 对检验报告若有异议，应于收到报告之日起十五天内向检验单位提出。

   Objections to the test report must be submitted to Guangzhou MCM Certification and Testing Co., Ltd. Within 15 days.

6. 本报告仅对来样负责。

   The test report is valid for the tested samples only.

7. 本检验结果中“N”表示“不适用”，“P”表示“通过”，“F”表示“不通过”。

   As for the test result, “N” means “not applicable”, “P” means “pass” and “F” means “fail”.

检测单位：广州邦禾检测技术有限公司

Laboratory：Guangzhou MCM Certification and Testing Co., Ltd.

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