Material Safety Data Sheet

This MSDS is authoring based on the data supplied by and identified on behalf of the client.

Sample Name:	DIGITAL TIRE PRESSURE GAUGE
Client Name:	NINGBO HI-TECH ZONE TONGCHENG AUTO PARTS CO., LTD.
Client Address:	ROOM 1801, 95 BUSINESS MANSION, NO. 598 JIANGNAN ROAD, HI-TECH ZONE, 315040, NINGBO, CHINA
MSDS No.:	2024032503E
Issue Date:	March 26, 2024

Signed for and on behalf of
JINHUA HEBIAO GHS AND MSDS SERVICES FIRM

Approved signator: David Chen

Material Safety Data Sheet

1. Identification of the Substances/Preparation and of the Company/Undertaking

Product Identification:

Product Name: DIGITAL TIRE PRESSURE GAUGE
Battery type: CR2032
Nominal voltage: 3V
Nominal capacity: 210mAh
Placement: Contained in equipment

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For tyre pressure check.
Use advised against: No data available.

Details of the Manufacturer or supplier

Supplier: NINGBO HI-TECH ZONE TONGCHENG AUTO PARTS CO., LTD.
Address: ROOM 1801, 95 BUSINESS MANSION, NO. 598 JIANGNAN ROAD, HI-TECH ZONE, 315040, NINGBO, CHINA.
Telephone: +86-574-87385818
Email: sales03@wheelsky.com

Emergency telephone number

Emergency Telephone: +86-574-87385818

2 - Hazards Identification

Classification of the substance or mixture

GHS Classification:

DIGITAL TIRE PRESSURE GAUGE (containing Li-MnO2 Button Cell CR2032) is regarded as " applicable for GHS classification.
As a solid, manufactured article, exposure to hazardous ingredients is not expected with normal use. T are "articles" according to Regulation (EC) No 1907/2006 EC, they are not "substances" nor "mixture there is no obligation to supply a safety data sheet (SDS) according to Regulation (EC) 1907/2006, an CLP (EC) 1272/2008.

Information on safe handling is provided as a service to our customers.
This product information sheet contains valuable information critical to the safe handling and prope product. The details presented are in accordance with our present knowledge and experiences, they ca all possible situation.

Additional Hazards:

Contain lithium metal button battery. Battery is considered as sealed non-spillable one. Under norm

conditions, the materials sealed inside should not be hazardous to people's health.

But when these materials exposed during production or under case broken condition or being extrei (fired), they may be hazardous to people's health: Skin contact with electrolyte solution causes seve eye irritation, and contact with lithium cause skin burn and eye damage.

Avoid contact with water. As lithium: In contact with water releases flammable gases which spontaneously.

See section 11 for more detailed information on health effects and symptoms.

3 - Composition/Information on Ingredient

Substance () Preparation () Article (√)

DIGITAL TIRE PRESSURE GAUGE(containing Li-MnO2 Button Cell CR2032). The battery is contained in a hermetically-sealed case(Outer shell), designed to withstand temperatures and pressures encountered during normal use. So during normal use, hazardous materials are fully contained inside the battery.

The composition of lithium metal button battery is as follows:

Chemical name	CAS No.	Content (%)
Polyurethane	51852-81-4	75%
Manganese dioxide	1313-13-9	7.9%
Lithium	7439-93-2	0.5%
Polypropylene	9003-07-0	1.0%
Stainless steel	-	12.2%

Abbreviation:

CAS No. is Chemical Abstract Service Registry Number.

4 - First Aid Measures

Description of first aid measures:

Measures at accidental release of electrolyte solution in battery

Inhalation: Move person into fresh air. Rinse mouth with water. Wash nose and throat. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally

lifting the upper and lower eyelids. If irritation occurs and persists, contact a doctor.

Skin Contact: Remove contaminated clothing. Wash off with soap and plenty of water. If irritation occurs and persists, contact a doctor.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician immediately.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

5 -Extinguishing media

Extinguishing media

Suitable extinguishing media:
In case of fire where batteries are present, use extinguishing media such as sand, dry ground dolomite, dry chemical, CO2 or flood the area with water. Water may not extinguish burning batteries but will cool the adjacent batteries and control the spread of fire. Burning batteries will burn themselves out.

Unsuitable extinguishing media: Water can not be used in closed areas because there is a risk of explosion due to the formation of flammable hydrogen.

Special hazards arising from the substance or mixture

Thermal decomposition may produce harmful vapors, corrosive lithium compounds, carbon oxides, and hydrogen, etc. Exposed to excessive heat, sealed battery may burst. Burst may cause metallic lithium in a humid environment can produce flammable gases and corrosive liquid electrolytes. Read and refer to the manufacturer's installation and usage instructions carefully. Keep away from heat and fire sources and do not allow metal objects to touch the positive and negative electrodes of the battery at the same time

Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full fire-fighting gear if necessary. Fight fire from a distance or protected area.

Further information

Avoid contaminated water to release to drains or waterways.

6 - Accidental Release Measures

The following measures suitable for conditions of accidental release of electrolyte solution in battery:

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

Personal precautions, protective equipment and emergency procedures:

If battery is leaked, Ensure adequate ventilation. Evacuate personnel to safe areas. Use suitable personal protective equipment. Avoid inhaling vapor, gas and dusts. Avoid direct contact with skin and eyes.

Environmental precautions:

Keep away of drains. Do not release into the environment.

Methods and materials for containment and cleaning up:

If battery is leaked, avoid leakage contacting with skin and moisture. Sweep and shovel up. Adsorb the remaining liquid with inert adsorbent. If the leakage is not hot or releasing gas, place in a suitable closed plastic container for further disposal. Please refer to section 13 for disposal.

7 - Handling and Storage

Precautions for safe handling:

Follow normal battery safety precautions.

The battery cannot be charged. Charging may cause the electrolyte to leak or burn.

Do not disassemble, crush or burn cell or battery. Avoid handling in a way that would cause a short circuit.

Do not subject cells or batteries to mechanical shock.

If the battery case is damaged, avoid contact with the internal components of the battery.

Conditions for safe storage, including any incompatibilities:

Store in room temperature, keep dry. Keep away from combustibles, organic solvents, strong oxidants and water. The battery cannot be charged and should be stored out of the reach of children.

8 - Exposure Controls, Personal Protection

Exposure Limits: Not established for finished product.

Exposure controls

Engineering Control: None required for normal use.

Personal protective equipment:

Respiratory Protection: None required for normal use. If battery broken or the inner materials of battery leaked, wear self-absorption filter respirators or air respirator.

Eyes Protection: None required for normal use. Wear safety goggles when handling leaking batteries.

Body Protection: Not required under normal conditions. When handling leaking batteries, wear suitable protective equipment to avoid skin contact.

Hands Protection: None required for normal use. Use protective gloves when handling leaking batteries.

Other Protections: None required for normal use.

9 - Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Silvery solid.
Odor	Odorless.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Upper explosive limit %(V/V)	Not available.
Lower explosive limit %(V/V)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not available.

Viscosity	Not available.

10 - Stability and Reactivity

Stability: Stable under recommended storage and handling and transport conditions.5

Conditions to Avoid: High temperature, high heat, open flame. Do not heat, crush, disassemble products and cause short circuits.

Incompatible materials: Keep away from flammable, organic solvents, strong oxidizing agent and water.

Hazardous Decomposition Products: No decomposition if used according to specifications. In the event of fire: see section 5.

Possibility of hazardous reactions: The internal material of battery may release flammable hydrogen when exposed to water.

11 - Toxicological Information

Acute Toxicity:

Ingredient	CAS No.	LD50-Rat-Oral	LC50-Rat-inhalation	LD50-Rabbit-skin
Manganese dioxide	1313-13-9	> 3478mg/kg	-	-

Skin Corrosion/Irritation:	Lithium: Causes severe skin burns.
Serious Eye Damage/Eye Irritation：	Lithium: Causes severe eye damage.
Respiratory or Skin Sensitization	No known sensitization effects.
Germ Cell Mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity：	Based on available data, the classification criteria are not met.
Reproductive Toxicity：	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity - Repeated Exposure (Globally	Based on available data, the classification criteria are not met.

Harmonized System):

Aspiration Hazard: Based on available data, the classification criteria are not met.

Potential Health Effects:

As an article, there is no health hazard of inhalation, ingestion or contact under normal conditions. Consumers and other users are safe to use according to the intended usage under reasonable foresight.

Only when the chemical composition inside the battery is exposed to the air, or when the battery is exposed to high heat or open flame, can produce the health hazard.

Inhalation: Cause respiratory tract irritation if inhaled.

Ingestion: swallowing the battery is harmful to health. May cause burns. Do not induce vomiting. Get medical attention immediately.

Skin Contact: Can cause skin irritation and burns if contact with chemicals in ruptured batteries.

Eye contact: May cause eye irritation and burns if they come in contact with chemicals in ruptured batteries.

12 - Ecological Information

Toxicity

When properly used or disposed, the batteries do not present environmental hazard.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

Since some internal materials may be harmful to aquatic environment, do not bury or throw out into the environment.

13 - Disposal Considerations

Waste treatment methods

SPENT BATTERIES:

Do not dispose in fire. Battery disposal regulations vary on national, state/provincial and local bases. Disposal must be conducted in accordance with the applicable regulations.

These batteries contain recyclable materials and recycling is encouraged over disposal.

14 - Transport Information

1）US DOT

The article is not subject according to special provision 188 and 49CFR173.185.

2）IMO/IMDG（41-22 edition）

Suggestion according to IMO IMDG Code：

The article is not subject to other provisions of IMO IMDG Code according to special provision 188.

3）IATA 65th (2024edition)

The lithium metal cells with a lithium metal content not exceeding 1g, according to the requirements of section Ⅱ of packing instructions 970 of 65th of DGR Manual of IATA(2024 edition) for transportation.

15. Regulatory Information

International Regulations

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

No information available.

Chemical safety assessment

For this product a chemical safety assessment was not carried out.

16. Other Information

Further 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.

·This safety data sheet was prepared in accordance with Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Rev.10.

Department Issuing MSDS: NINGBO HI-TECH ZONE TONGCHENG AUTO PARTS CO., LTD.

Issue Date: March 26, 2024

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