

**SKF MPT** states that this SDS pertains to the batteries included in the following designations:

**TLSD 1-BAT**

**SKF MPT (Maintenance Products, Power Transmission, Tools & Equipment)**

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# Material Safety Data Sheet

File No.: EBO2401058-M176

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## 1. Identification of Substance

### Product Details

**Product Name:** DRY BATTERY

**Product Model:** R20, R14, R6, R03, 6F22, LR20, LR14, LR6, LR03, 6LR61.

## 2. Hazards Identification

**Hazard description:** These batteries are no “substances” or “mixtures” according to Regulation (EC) No 1907/2006 EC. Instead they have to be regarded as “articles”, no substances are intended to be released during handling. Therefore there is no obligation to supply a “safety data sheet according to Regulation (EC) 1907/2006, Article 31”.

**Routes of Entry:** Not applicable under normal conditions.

**Health Hazards:** If battery leaking, exposure to caustic ingredients may occur. Therefore, may cause Sensitization by skin contract.

**Hazards to Environment:** Not applicable.

**Fire and Explosion Hazards:** Not applicable.

## 3. Composition/Data on Components

COMPONENT	CAS No.	% By wt.
Zn	7440-66-6	23%-27%
Mno <sub>2</sub>	1313-13-9	27%-31%
C	7782-42-5	3%-4%
(C3H6) <sub>n</sub>	9003-07-0	2%-3%
CU	7440-50-8	1%
KON	1310-58-3	4.5%-5.5%
H <sub>2</sub> O	7732-18-5	8%-9%
Fe	7439-89-6	17%-19%
Cr	7440-47-3	4%-5%
Ni	7440-02-0	1.5-2.5%

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## 4. First aid Measures

None unless internal materials exposure. If contents are leaked out, observe following instructions.

- Eyes:** Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
- Skin:** Remove contaminated clothing. Wash with plenty of soap and water. If irritation occurs, get medical attention.
- Inhalation:** Move to fresh air. If symptoms persist, call a physician.
- Ingestion:** If swallowing a battery, consult a physician immediately

## 5. Fire Fighting Measures

- Flash Point:** N/A.
- Auto-Ignition Temperature:** N/A.
- Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special Fire-Fighting Procedures:** Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
- Unusual Fire and Explosion**
- Hazards:** Cell may vent when subjected to excessive heat-exposing battery contents.
- Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, and other metal oxide fumes.

## 6. Accidental Release Measures

- Person related measures:** None under normal use conditions. In the event of damage resulting in a leak or exposed materials, avoid contact with contents of an open or damaged cell or battery. Wear protective clothing as described in section 8 of this safety data sheet.
- Environment protection measures:** In the event of battery rupture, prevent skin contact and collect all released material in a plastic lined container.  
Dispose off according to the local law and rules.  
Avoid leached substances to get into the earth, canalization or waters.
- Treatment for cleaning:** If intact batteries are scattered, pick up mechanically and place into a suitable container for reuse or disposal. In the event of battery rupture or leakage, caustic potassium hydroxide may be released. Carefully collect all released material in a suitable container for disposal. Flush with water and neutralize with dilute citric acid. DONOT allow material to enter sewers, streams, or storm conduits. Notify safety personnel of large leakage.

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## 7. Handling and Storage

### Handling:

Do not recharge batteries.  
Do not short circuit or install incorrectly.  
Do not open, disassemble, puncture or deform. Avoid mechanical or electrical abuse.  
Do not carry batteries loose in a pocket or bag.  
Do not swallow batteries.  
Keep batteries away from children.  
Do not mix with used or other types of batteries together.  
Do not remove the battery label. Do not throw batteries into water or fire.  
Always follow the warning information on the batteries and in the manuals of devices.

### Storage:

In case of battery change always replace all batteries by new.  
Store in a cool, dry and ventilated place at room temperature.  
Avoid large temperature changes.  
Do not refrigerate batteries - this will not make them last longer.  
If possible, store the batteries in original packaging (short circuit protection).  
Protect from physical damage.  
For storage of large amounts, a fire alarm is recommended in the storehouse.  
Protect from moisture and sunlight.  
Keep away from heat and ignition sources. - No smoking.  
Keep away from combustible materials and incompatible materials. Keep out of reach of children.

## 8. Exposure Controls and Personal Protection

### Respiratory protection:

In case of battery venting, provide as much ventilation as possible. Avoid confined areas with venting batteries. Respiratory Protection is not necessary under conditions of normal use.

### Ventilation:

Not necessary under conditions of normal use.

### Protective Gloves:

Not necessary under conditions of normal use.

### Other Protective Clothing or

### Equipment:

Not necessary under conditions of normal use.





**If the battery leaks, must wear the following protection products.**

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	<b>Respiratory protection</b>	In all fire situations, use self-contained breathing apparatus.
	<b>Hand protection</b>	In the event of leakage wear gloves.
	<b>Eye protection</b>	Safety glasses are recommended during handling.
	<b>Other</b>	In the event of leakage, wear chemical apron.

## 9. Physical and Chemical Properties

### General Information

<b>Form:</b>	Solid
<b>Color:</b>	Multicolor
<b>Odor:</b>	Odorless
<b>Boiling Point:</b>	No data available
<b>Melting Point:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility In Water:</b>	No data available
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	No data available
<b>pH:</b>	No data available
<b>Freezing Point:</b>	No data available
<b>Molecular Weight:</b>	Mixture, Not Applicable

## 10. Stability and Reactivity

<b>Chemical Stability:</b>	This material is chemically stable under normal and storage and handling conditions.
<b>Conditions to Avoid:</b>	Elevated temperatures fire and ignition sources, mechanical abuse and electrical abuse.

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## Hazardous Decomposition

**Products:** When exposed to fire or extreme heat, batteries may emit toxic fumes.

## 11. Toxicological Information

Inhalation, skin contact and eye contact are possible when the battery is opened.

Exposure to internal contents, the corrosive fumes will be irritation to skin, eyes and mucous membranes.

Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

## 12. Ecological Information

**Environmental Impact:** Proper use and disposal of the battery will not harm the environment.  
Dispose of the battery, away from water, rain and snow.

## 13. Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

Dispose of the battery in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

## 14. Transport Information

The batteries are considered to be “dry cell” batteries and are unregulated for purposes of transportation by the U.S. Department of Transportation (DOT), International Civic Aviation Administration (ICAO), International Air Transport Association (IATA), the International Maritime Organization (IMO), the “Accord Européen Relatif au Transport International des Marchandises Dangereuses par Route” (ADR) and the “Règlement concernant le transport international ferroviaire de marchandises Dangereuses” (RID).

The requirements for shipping these batteries, in all modes of transportation, are that they be separated from each other to prevent short-circuits and to prevent movement that could lead to short-circuits. Products must also be packed in strong packaging that can withstand the rigors normal to transportation.

All 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 IATA Dangerous Goods Regulations 2024 (65th Edition) Special Provision number A123 be provided on the air waybill, when an air waybill is issued.

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.

Shock and vibration shall be kept to a minimum. For instance, boxes should not be thrown off trucks, slammed into position or piled so high as to overload battery containers below. Protection from inclement weather should be provided.

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## 15. Regulations

### Law Information

《Dangerous Goods Regulation》  
《Recommendations on the Transport of Dangerous Goods Model Regulations》  
《International Maritime Dangerous Goods》  
《Technical Instructions for the Safe Transport of Dangerous Goods》  
《Classification and code of dangerous goods》  
《Occupational Safety and Health Act》 (OSHA)  
《Toxic Substances Control Act》 (TSCA)  
《Consumer Product Safety Act》 (CPSA)  
《Federal Environmental Pollution Control Act》 (FEPCA)  
《The Oil Pollution Act》 (OPA)  
《Superfund Amendments and Reauthorization Act Title III  
(302/311/312/313)》 (SARA)  
《Resource Conservation and Recovery Act》 (RCRA)  
《Safety Drinking Water Act》 (CWA)  
《California Proposition 65》  
《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and Local laws.

Date of issue of the transport regulations: ADR, RID, IATA 2024 (65th edition), IMDG, DOT / 49 CFR 2024. Latest covered modification of the European Battery Directive 2006/66/EC: Directive 2013/56/EU

## 16. Other Information

### DISCLAIMER OF LIABILITY

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