

PRODUCT SAFETY DATA SHEET

1. Name of Product and Manufacturer

Name of Product: XPR-5522GMX

Product Description: Rechargeable Light with 5522-BATT battery

Name of Company: Bayco Products Inc.

Address: 640 S. Sanden Blvd. Wylie, TX. 75098 USA

Telephone number: 001-469-326-9400

For emergency: 001-469-326-9400

2. Hazards identification

GHS Classification: Not applicable

Hazard: The hazard is associated with the contents of the cell or battery. Under recommended use conditions, the electrode materials and liquid electrolyte are non-reactive provided that the cell or battery integrity remains, and the seals remain intact. The potential for exposure should not exist unless the cell or battery leaks, is exposed to high temperatures or is mechanically, electrically or physically abused/damaged. If the cell or battery is compromised and starts to leak, based upon the battery ingredients, the contents are classified as Hazardous.

Hazard Pictogram(s): Not applicable

Signal Word: Not applicable

3. Compositions

IMPORTANT NOTE: The battery cell should not be opened or exposed to heat because exposure to the ingredients contained within could be harmful under some circumstances. Refer to Samsung SDS ICR18650-26J for further details.

No other hazardous items exist

4. First Aid Measures

The product contains inorganic electrolyte. In case electrolyte leakage from the battery, action described below are required.

Eye contact: Exposure of eye to contents of an open cell will cause chemical burns and severe irritation. Rinse thoroughly with large quantity of distilled water at once and seek medical attention immediately.

Skin contact: Electrolyte will cause chemical burns, and others chemical compound may cause allergic dermatitis. Remove contaminated clothing at once, and rinse with large quantity of water. If the symptoms persist, seek medical attention.

Inhalation: Do not dispose of cells or battery packs in fire or mutilate, they may burst explosively or release toxic fumes. Inhalation of those may cause significant harm to human body. Provide fresh air at once and seek medical attention.

5. First Fighting Measures

Extinguishing method: If fire or explosion occurs when the cells or battery packs are being charged, stop charging immediately. Fire fighters should wear self-contained breathing apparatus. Nickel metal hydride batteries involved in a fire can produce toxic fumes including oxides of nickel, cobalt, manganese, lanthanum, cerium, neodymium and praseodymium.

Fire extinguishing agent: Dry sand is effective and any class of extinguish medium should be considered on the cell/battery packs or packing material.

6. Accident Release Measures

For non-emergency personnel: Use personal protective equipment

Emergency procedures:

- In case of cell damage, possible release of dangerous substances and a flammable gas mixture.
- Eliminate all ignition sources.
- Please note that materials and conditions to avoid.
- Battery may emit electrolyte if charging or discharging rates exceed manufacturer's recommendations or if pack has been breached.
- Move battery to well ventilated area to prevent gas accumulation.

For emergency responders

- Eliminate all ignition sources.
- Please note that materials and conditions to avoid.
- Move battery to well ventilated area to prevent gas accumulation.

Environmental precautions:

- Avoid release to the environment.
- Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

- **For containment:** Not available
- **For cleaning up:**
 - Cover with Dry earth, DRY sand or other non-combustible material and put on the plastic sheet to minimize spreading or contact with rain.
 - Move battery to well ventilated area to prevent gas accumulation.
 - Dispose in accordance with applicable local, state and federal regulations.

7. Handling and Storage

- Technical measures and storage conditions: Not available
- Packaging materials: Not available
- Requirements for storage rooms and vessels:
- Storage at room temperature (approx. 20°C) at approx. 40% of the nominal capacity
- Keep in closed original container.

8. Exposure Control

- Acceptable condition: Not specified in ACGIH.



- Facilities: Provide appropriate ventilation system such as local ventilator in the storage place.
- Protective clothing: Gas mask for toxic gases, safety goggle, and safety glove.

9. Physical and Chemical Properties

- Appearance: Solid
- Odor: No information available
- pH: Not information available
- Evaporation Rate: Not applicable
- Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable at ambient temperature.

Chemical stability

- There is no hazard when the measures for handling and storage are followed.
- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Will not occur under normal conditions.
- In case of cell damage, possible release of dangerous substances and a flammable gas mixture.
- Containers may explode when heated.
- Fire may produce irritating and/or toxic gases.
- Some liquids produce vapors that may cause dizziness or suffocation.
- Inhalation of material may be harmful.

Conditions to avoid

- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Friction, heat, sparks or flames
- Dusts or shavings from borings, turnings, cuttings, etc.
- Do not exceed manufacturer's recommendation for charging or use battery for an application for which it was not specifically designed.
- Do not electrically short.

Incompatible materials

- Avoid contact with acids and oxidizers.
- Keep away from any possible contact with water, because of violent reaction and possible flash fire.
- Handle under inert gas. Protect from moisture.
- Combustibles, reducing agents

Hazardous decomposition products

- None under normal conditions.
- Corrosive and/or toxic fume
- Material may produce irritating and highly toxic gases from decomposition by heat and combustion during burning.
- Irritating and/or toxic gases

11. Toxicological Information

- Acute toxicity: Not specified.
- Irritation: Irritating to eye and skin.

- Mutagenicity: Not specified.
- Chronic toxicity: Not specified.

12. Ecological Information

- In case of the worn-out battery was disposed in land, the battery case maybe corroded, and leak electrolyte. But, we have no ecological information.

13. Disposal Considerations

- When the battery is worn-out, dispose of it under the ordinance of each local government or the law issued by relating government.

14. Transportation Information

- **For Air shipment:** Products are packed in compliance to the latest edition of the IATA Dangerous Goods Regulations section II of Packing Instruction 967 in order for that consignment to be declared as NOT RESTRICTED (non-hazardous/non-Dangerous). The lithium-ion battery is packed with or contained in the equipment, UN No. is UN3481.
- **For Road and/or Sea:** Lithium Ion Batteries “not restricted as per ADR/IMDG SP 188”

15. Regulatory Information

MSHA

Model XPR-5522GMX Safety Flashlight
Permissible Flashlight Assembly

APPROVAL No. 20-A180002-0
TESTED FOR INTRINSIC SAFETY IN METHANE-AIR
MIXTURES ONLY

WARNINGS: 1) MSHA approved for use with one part number 5522-BATT rechargeable battery pack only.
2) The Model XPR-5522GMX Safety Flashlight is only to be charged on the surface, or underground in accordance with the applicable regulations pertaining to battery-charging stations (reference 30 CFR 75.340) with a Bayco Products, Inc. model 5522-CHGR1.
3) Do not open in areas where permissibility is required.

CLASS I DIV 1 GRPS A-D T3
CLASS II DIV 1 GRPS E-G T3 & Class III T155°C
CLASS I ZONE 0 AEx ia IIC T3 Ga
CLASS I ZONE 0 Ex ia IIC T3 Ga
Ex ia op is IIC T3 Ga
Ex ia op is IIC T3 Ga

Intertek
ID 4003544
INTRINSICALLY SAFE
SECURITE INTRINSEQUE

CE 2575 UK CA 0359

SEE INSTRUCTION MANUAL
ATENÇÃO - VER MANUAL DE INSTRUÇÕES

Interleuk ITS 16 ATEX201022X
ITS21UKEX0267X
IECEx ITS 16 0045X
-10°C ≤ Tamb ≤ +40°C IP54
3.7V/Cell

Input entity parameters for charging contacts on flashlight:
U_i 4.75V
I_i 500mA
P_i 0.59W
L_i 0.0uH
C_i 0.0uF

Conforms to:
ANSI/UL STD 913, ANSI/UL 60079-0, ANSI/UL 60079-11

Certified to:
CAN/CSA STD C22.2 No 157
CAN/CSA STD C22.2 No 60079-0
CAN/CSA STD C22.2 No 60079-11
CSA STD C22.2 No 25

MFG MM-YY

Segurança

INMETRO

Ex ia op is IIC T3 Ga
(-40°C ≤ Tamb ≤ +40°C)
NCC 21.0078 X

16. Other Information

This PSDS is provided in good faith and generally descriptive only and is not intended to make or imply any representation of warranty with respect to any product. Bayco Products Inc. reserves the rights on modification of this document without prior notice. The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.

It is believed that the information contained herein is accurate as of the date hereof. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREIN AS TO THE INFORMATION PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The health and safety precautions contained herein may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Nothing contained herein shall be construed as a license for the use of any product in a manner that would infringe existing patents.

