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MATERIAL SAFETY DATA SHEET

71209

GENERAL DESCRIPTION

Product Code: **71209 / Life Jacket "Safelite II", L.S.A.Code**

SOLAS Certified Product

- LED Flashlight Technology
- Water Activated
- Inspection friendly label
- Functions only when in-water*

** Guarantees protection against the unnecessary use and battery loss, out of the water.*

MAIN MATERIALS

- Main Material: Plastic (PC)
- Type of Light source: LED
- Electronic circuit
- 1 Lithium battery CR2 (content of Lithium <5% of total products' weight e.g. 1.35g < 2g)

HEALTH AND SAFETY INFORMATION

The battery cells are hermetically sealed pressurised primary Lithium / Manganese Dioxide and as supplied are electronically protected by a fuse and from external environment by plastic casing. In this state the units constitute no definable hazard to health.

The product must be handled as follows:

- Do not dismantle the light assembly
- Do not recharge
- Do not incinerate
- Do not heat above 100C^{o}
- Store in a cool, dry place

However *disassembly, abuse or destruction of the battery cell* will expose the contents and the attached Health And Safety Hazards should be taken into account (*For further information of the Lithium Cells please see the relevant attached MSDS CR2).*

FIRE FIGHTING MEASURES

CO_2, Dry chemical, copious quantities of a water based foam.

STABILITY & REACTIVITY

Stability:
Stable under normal / intended use conditions

Conditions to be avoided:
Heating, mechanical abuse and electrical abuse.

Hazardous decomposition products: N/A

TRANSPORT

Excempted from transport packing marking and labelling regulations under surface ADR & IMDG special Provision 188, IATA Packing Instruction 970
UN Number: 3091
UN Proper Shipping name: Lithium Metal Batteries Contained in Equipment
Lithium Content: 1.35 g < 2g

The package must be handled with care. If the package is strongly damaged then flammability hazard exists. In case of severe damage of the packaging check whether

- *Dismantling has occurred*
- *Abuse or destruction of the battery cell has occurred*

In the above mentioned cases the product has been destroyed and it's no longer suitable for use (no need of re-packing in this case).

DISPOSAL INFORMATION

The battery must be neutralized through an approved secondary treatment facility prior to disposal as a hazardous waste. Recycling of battery can be done in authorized facility, through licensed waste carrier.

The product should be disposed in accordance with appropriate local regulations.

OTHER INFORMATION

The above information is given based on the present state of our knowledge of this product and is, to the best of our knowledge and belief, accurate at the time of publication. No warranty given, either express or implied, with respect to the accuracy, reliability or completeness of the information contained herein and we will assume no liability resulting from its use. The users must satisfy themselves that the information provided is entirely suitable for their particular use.

Pony Testing International Group

Report No.：I03063026916D~1

MSDS Report

Sample Description & Model	Lithium Battery (CR26500)
Applicant	
Address	

No.: I03063026916D
Code: tnyr3c35

Report in electronic version is only for client's preview and reference. For confimative content, formal test report shall prevail.

Material Safety Data Sheet

According to ISO11014:2009 & GB16483-2008

Section 1 - Chemical Product and Company Identification

Chemical product identification

Sample Description: Lithium Battery

Sample Model: CR26500

Section 2 - Hazards Identification

No harm at the normal use. If contact the electrolyte in the battery, reference as follows:

Classification of the substance or mixture

Classification according to GHS

Acute toxicity, Oral (Category 4)

Acute toxicity, Dermal (Category 3)

Skin, irritate (Category 1B)

Eyes, irritate (Category 1)

Label elements

Labelling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram(s):

Signal word: Danger

Hazard statement(s): H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage

H302: Harmful if swallowed.

Precautionary statement(s):

Prevention: P280: Wear protective gloves/protective clothing/eye protection / face protection.

Response: P312: Call a POISON CENTER or doctor/ physician if you feel unwell.
P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Disposal: P501: Dispose of contents/container in accordance with local/national regulations

Other hazards No information available.

Section 3 - Composition, Information on Ingredients

Chemical characterization: Mixture

Chemical Composition	CAS No.	EC#	Weight (%)
Lithium Metal	7439-93-2	231-102-5	<3
Manganese Dioxide	1313-13-9	215-202-6	<57
Acetylene Black	1333-86-4	215-609-9	<3
Graphite	7782-42-5	231-955-3	<3
Steel shell	---	---	<5
Aluminum mesh	7429-90-5	231-072-3	<6
Glass	---	---	<5
PVC	9002-86-2	208-750-2	<4
PTFE	9002-84-0	204-126-9	<4
PP	9003-07-0	---	<3
Other	---	---	Balance

Section 4 - First Aid Measures

Description of first aid measures

General information No special measures required.

After eye contact

Flush eyes with plenty of water for several minutes while holding eyelids open. Get medical attention if irritation persists.

After skin contact

Remove contaminated clothing and shoes. Immediately wash with water and soap and rinse thoroughly. Wash clothing and shoes before reuse. If irritation occurs, get medical attention.

After inhalation

Remove victim to fresh area. Administer artificial respiration if breathing is difficult. Seek medical attention.

After swallowing

Do not induce vomiting. Get medical attention.

Information for doctor:

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5 - Fire Fighting Measures

Flammability: Not available.

Extinguishing media

Suitable extinguishing agents

Use extinguishing agent suitable for local conditions and the surrounding environment . Such as dry powder , CO_2.

Special hazards arising from the substance or mixture

Battery may burst and release hazardous decomposition products when exposed to a fire situation. Lithium ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperature(>150℃(302℉)), when damaged or abused (e.g. mechanical damage or electrical overcharging); may burn rapidly with flare-burning effect; may ignite other batteries in clothes proximity.

Advice for firefighters

Protective equipment: Wear self-contained respirator. We

Specific and use

No further relevant information available.

Section 8 - Exposure Controls, Personal Protection

Control parameters

Ingredients with limit values that require monitoring at the workplace:
No further relevant information available.

Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Respiratory Protection

Use suitable respirator when high concentrations are present.

Personal Protection

Protection of hands

Protective gloves

Eye protection

Tightly sealed goggles

Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

General information

Appearance:	White.
Form:	Cylindrical.

Odour:	Odorless.
pH:	Not available.
Change in condition	
Melting point:	Not available.
Boiling point:	Not available.
Freezing point	Not available.
Flash point:	Not available.
Flammability:	Not available.
Ignition temperature:	Not available.
Decomposition temperature:	Not available.
Self-igniting:	Not available.
Danger of explosion:	Not available.
Explosion limits	
Lower:	Not available.
Upper:	Not available.
Oxidizing properties:	Not available.
Vapour pressure:	Not available.
Density:	Not available.
Relative density:	Not available.
Vapour density:	Not available.
Evaporation ra	

Conditions to Avoid

Flames, sparks, and other sources of ignition, incompatible materials.

Incompatibilities

Oxidizing agents, acid, base.

Hazardous Combustible Products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

Hazardous Polymerization

N/A.

Section 11 - Toxicological Information

Information on toxicological effects

Acute toxicity

LD/LC50 Values relevant for classification:
Not available.

Primary irritant effect

No further relevant information available.

Sensitization:

No further relevant information available.

Additional toxicological information:

Toxicological, metabolism and distribution:

No further relevant information available.

Acute effects (acute toxicity, irritation and corrosivity):

No further relevant information available.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):

No further relevant information available.

Section 12 - Ecological Information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Behaviour in environmental systems

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Ecological effects

Additional ecological information

General notes:

Do not allow material to be released to the environment without proper governmental permits.

Other adverse effects: No further relevant information available.

Section 13 - Disposal Considerations

Waste treatment methods

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Section 14 - Transport Information

UN Number	
IATA	UN3090
IMDG	UN3090
Model Regulation	UN3090
UN Proper shipping name	
IATA	Lithium Metal Batteries
IMDG	Lithium Metal Batteries
Model Regulation	Lithium Metal Batteries
Transport hazard class(es)	
IATA	9
IMDG	9
Model Regulation	9
Packing group	
IATA	II
IMDG	II
Model Regulation	None
Environmental hazards	
Marine pollutant:	No
Special precautions for user	Not applicable.

Transport information: The

Aluminum mesh	7429-90-5	Listed	231-072-3	Listed
PVC	9002-86-2	Listed	208-750-2	Listed
PTFE	9002-84-0	Listed	204-126-9	Listed
PP	9003-07-0	Listed	---	Not Listed

Section 16 - Additional Information

Abbreviations and acronyms

CLP:	EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.
CAS:	Chemical Abstracts Service (Division of the American Chemical Society).
ACGIH:	American Conference of Governmental Industrial Hygienists
TLV:	Threshold Limit Value
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods
LC50:	lethal concentration, 50 percent kill
LD50:	lethal dose, 50 percent kill
TWA	Time Weighted Average
TSCA	United States Toxic Substances Control Act Section 8(b) Inventory
EINECS	European Inventory of Existing Commercial Chemical Substances
Model Regulation	Recommendations on the Transport of Dangerous Goods Model Regulations

Declare to reader

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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End of report