

Section 1 – Chemical Product and Company Identification

Product Name: EverClear 2, Battery
Model/Type: Lithium-Ion Battery Pack (LiPo) - less than 2 Watt Hours
Cell Type inside: 1x LIR10500
Reference I-Dent: ID50-1912

Manufacturer: I-Dent SA
Address: Rte. De Champ-Colin 20, 1260 Nyon, Switzerland
Tel: +41 22 525 31 80
Mail: info@i-dent-dental.com

Section 2 – Composition/Information on Ingredients :

Chemical Composition	Chemical Formula	CAS No	Weight / Concentration (%)
Nickel Cobalt Manganese	Ni Co Mn	--	39
Graphite	C	7782-42-5	18.77
Organic Electrolyte	--	RR-14099-8	11.3
Polypropylene	C ₃ H ₆	9003-07-0	3.5
Copper	Cu	7440-50-8	9.05
Aluminium	Al	7429-90-5	3.67
Other	--	--	15.01

Based on approx. 8g cell, without 10g of steel and manufacturing products.

Section 3 – Hazards Identification :

Health hazards (acute and chronic): These chemicals are contained in a sealed can .Risk of exposure occurs only if the battery is mechanically or electrically abused. Contact of electrolyte and extruded lithium with skin and eyes should avoided.

Sign/symptoms of Exposure: A shorted lithium battery can cause thermal and chemical burns upon contact with the skin.

Section 4 – First Aid Measures:

Eye: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Remove contaminated clothes and rinse skin with plenty of water or shower for 15 minutes. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. Use oxygen if available.

Ingestion: give at least 2 glasses of milk or water. Induce vomiting unless patient is unconscious. Call a physician.

Section 5 – Fire Fighting Measures:

Flash point : N/A

Auto-Ignition Temperature : N/A

Extinguishing Media : Dry chemical, CO2.

Special Fire-Fighting Procedures: Self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Cell may vent when subjected excessive heat-exposing battery contents.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, lithium oxide fumes.

Section 6 – Accidental Release Measures

Steps to be Taken in case Material is Released or Spilled:

If the battery material is released, remove personnel from area until fumes dissipate. Provide maximum ventilation to clear out hazardous gases. With a cloth and dispose of it in a plastic bag and put into a steel can. 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 Disposal Method:

It is recommended to discharge the battery to the end, handing in the abandoned batteries to related department unified, dispose of the batteries in accordance with approved local, state, and federal requirements. Consult state environmental protection agency and/or federal EPA.

Section 7 – Handling and Storage

The batteries should not be opened, destroyed or incinerated, since they may leak or rupture and release to the environment the ingredients they contain in the hermetically sealed container. Do not short circuit terminals, or overcharge the battery, forced over-discharge, throw to fire. Do not crush or puncture the battery or immerse in liquids.

Precautions to be taken in handling and storing:

Avoid mechanical or electrical abuse. Store preferably in cool, dry and ventilated area, which is subject to little temperature change. Storage at high temperatures should be avoided. Do not place the battery near heating equipment, nor expose to direct sunlight for long periods.

Other precautions:

Batteries may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.

Section 8 – Exposure Controls, 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. Wear Nitrile rubber gloves if handling an open or leaking battery.

Other protective clothing or Equipment: Not necessary under conditions of normal use.

Personal protection is recommended for venting batteries : Respiratory Protection Protective Gloves, Protective Clothing and safety glass with side shields.

Section 9 – Physical and Chemical Properties

Appearance: Cylindrical Battery with Stainless Steel exterior

Physical State: Solid

Odor: None

Capacity: less than 2 Watt Hours

Section 10 – Stability and Reactivity

Stability: Under normal use, stable

Conditions to Avoid : Heating ,mechanical ,abuse and electrical abuse.

Hazardous Decomposition Products : N/A

Hazardous Polymerization : N/A

If leaked ,forbidden to contact with strong oxidizers, mineral acids, strong alkalis, halogenated hydrocarbons.

Section 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 very irritation to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

Section 12 – Ecological Information

When promptly used or disposed the battery does not present environmental hazard. When disposed, keep away from water, rain and snow.

Section 13 – Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

If batteries are still fully charged or only partially discharged, they can be considered a reactive hazardous waste because of significant amount of uncreated or unconsumed lithium remaining in the spent battery. The batteries 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.

Section 14 – Transport Information

The polymer lithium ion batteries have passed the test UN38.3

According to packing instruction PI965~PI967 section II of IATA DGR 64th Edition for transportation or the special provision 188 of IMDG.

The products are not subject to dangerous goods.

More information concerning shipping, testing, marking and packaging can be obtained from Label master at <http://www.labelmaster.com>.

Separate Lithium -ion batteries when shipping to prevent short-circuiting. They should be Packed in strong packaging for support during transport. Take in a cargo of them without falling, dropping, and breakage. Prevent collapse of cargo piles and wet by rain.

Transport Fashion : By air ,by sea.

Section 15 – Regulatory Information

See ACGIH exposure limits information as noted in Section 3

US: This MSDS meets/exceeds OSHA requirements

International: This MSDS conforms to European Union (UN), the international Standards Organization (ISO) and the International Labor Organization (ILO) and as documented in ANSI (American National Standards Institute) Standard Z400.1-2010

Regulations specifically applicable to the product:

IATA-DGR (air transportation)

IMO-IMDG Code (sea transportation)

US Department of Transportation 49 Code of Federal Regulations (USA)

Wastes Disposal and Public Cleaning Law (Japan)

Law for Promotion of Effective Utilization of resources (Japan)

Section 16 – Additional Information

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date 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 person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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