

**1. Identification of the Substance/Preparation and of the Company/Undertakings****Product Details:**

Trade Name: Coltene S.P.E.C.3 / Dentronix LED 3000 Battery Pack Cat. No.60013952

Chemical Product Name: Lithium-ion Polymer Battery

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**2. Hazard Identification****Classification:** Carcinogenic Category 3R40, Xn, Sensitizing R43**Most Important hazards:** There's limited evidence of carcinogenic effect. There are possible risks of irreversible effects. It may cause sensitization by skin contact.**Further Information:** The sealed lithium-ion battery is not hazardous when used according to recommendations. Under normal conditions of use, the integrity of the battery's package and security vent are maintained. The ingredients are not expected to pose a significant risk to man or the environment. The classification above is based on the contents being considered as a preparation in accordance with Directive 1999/45/EC.**3. Composition/Information on Ingredients****Chemical Characterization:** The Lithium-ion battery is Hermetically Sealed; Among its components, the following could be hazardous upon release**Hazardous Components:**

Chemical Name	Concentration %	CAS No.	EINECS No.
Lithium Cobaltite (LiCoO <sub>2</sub> )	25-30 %	12190-79-3	235-362-0
Graphite Powder	10-15 %	7440-44-0	231-153-3
Copper Foil	15-20 %	7440-50-8	231-259-6
Aluminum Foil	4-6 %	7429-90-5	231-072-3
LiPF <sub>6</sub>	3-5 %	21324-40-3	244-334-7
Ethylene glycol carbonate	10-15 %	96-49-1	202-510-0
PP or PE	15-20 %	/	/

**4. First-Aid Measures***This information refers to exposure to ingredients.***Inhalation:** Immediate medical attention is required. Move to fresh air. If symptoms persist, call a physician.**Skin Contact:** Immediate medical attention is required. Wash off immediately with plenty of water for at least 15 minutes.

Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

**Eye Contact:** Immediate medical attention is required. Remove contact lenses. Rinse immediately with plenty of water for at least 15 minutes.**Ingestion:** Immediate medical attention is required. Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.**5. Fire-Fighting Measures***This information refers to exposure to ingredients***Extinguishing Media:** Foam dry powder, carbon dioxide (CO<sub>2</sub>), sand.**Unsuitable Extinguishing Media:** Water, Water Spray.**Protective Equipment:** Wear self contained breathing apparatus. Wear personal protective equipment.**Hazardous Decomposition Products:** Lithium compounds, carbon oxides, hydrogen fluoride**6. Accidental Release Measures****Personal Precautions:** Use personal protective equipment. Avoid contact with skin and eyes.**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. To avoid risks to man and the environment, comply with the instructions for use.**Methods of Cleaning Up:** Pick up and transfer to properly labeled containers. Dispose of in accordance with local regulations.**7. Handling and Storage****Precautions for Safe Handling:** Avoid contact with skin and eyes. Use personal Protective equipment. Follow instructions for use issued by the producer.**Storage:** Keep in a dry, cool and well ventilated place, preferably in the temperature range of +5 to +25°C at 65% (+-5%) relative humidity. Keep away from heat and sources of ignition. Keep away from water. Ensure battery terminals are protected during storage.

**8. Exposure Controls/Personal Protection**

Engineering Controls: Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Not required under normal use.

*The information below refers to exposure to the ingredients.*

Environmental Exposure Controls: Prevent product from entering drains. Do not allow material to contaminate ground water system.

Work/Hygienic Protection: General industrial hygiene practice.

Hand/Skin Protection: Neoprene gloves (EN 374), Boots Apron, Long sleeved clothes.

Respiratory Protection: Effective dust mask.

Eye Protection: Safety glasses with side-shields conforming to EN 166

**9. Physical And Chemical Properties**

General Information: Form battery (sealed unit)

Color: Silvery

Odor: odorless

Important Health Safety and Environmental Information: Not Applicable

**10. Stability and Reactivity**

Stability: Stable under normal conditions

Hazardous Polymerization: Hazardous polymerization does not occur.

Conditions to avoid: Keep away from heat and sources of ignition.

Materials to avoid: Exposure to moisture.

Hazardous decomposition products: Lithium compounds, carbon oxides, hydrogen fluoride.

**11. Toxicological Information**

*The information below refers to exposure to the ingredients.*

Local effects: may cause eye/skin irritation. May cause irritation of respiratory tract.

Long term toxicity: No data available. Avoid repeated exposure.

Specific Effects: May cause sensitization by inhalation and skin contact. Limited evidence of a carcinogenic effect.

**12. Ecological Information**

If used as directed and if the integrity of the battery's package and security vent are maintained, the ingredients are not expected to pose a significant risk to the environment.

Mobility: No data available.

Persistence and degradability: Not readily biodegradable.

Eco-toxicity effects: No data available.

**13. Disposal Considerations**

Waste from residues/unused products: Dispose of in accordance with local regulations. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations. It should not be released into the environment.

Contaminated Packaging: Not applicable.

Further Information: Never incinerate Li-Ion batteries. Never dispose Li-Ion batteries in landfill.

**14. Transportation Information**

In airfreight, sealed Lithium-ion batteries are considered as "Lithium Batteries – Not Restricted", when they can meet the requirements of PI965 of IATA Dangerous Goods Regulations (UN3480).

In sea-freight, sealed lithium-ion batteries are considered as "Lithium Batteries – Not Restricted", when they can meet the requirements of IMDG of IMO Dangerous Goods Regulations (UN3480).

The battery does not exceed 100wh, and each cell doesn't exceed 20wh. So this battery does not belong to class 9 with reference to IATA, 2010 Dangerous Goods Regulations, 51<sup>st</sup> edition. It complies with the necessary testing requirements under the UN Manual of Tests and Criteria, Part III, sub-section 38.3. It complies with Section II of PI965.

For more information, please refer to the newest UN Manual of Tests and Criteria, Part III, sub-section 38.3 Lithium Batteries, IATA Dangerous Goods Regulation, UN Recommendations on the Transport of Dangerous Goods Model Regulations, International Maritime Dangerous Goods (IMDG) and Agreement on Dangerous Goods by Road (ADR). It is especially important to ensure that batteries are packed in such a way to prevent short circuits.

**15. Regulatory Information**

Symbol

T – Toxic

Xn – Nocif

XI – Irritant

**16. Other Information**

Revised 3/2013: Added Mfr & EC REP Symbols, Added Dentronix LED 3000 Battery Pack Cat. No.60013952 to Section 1.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.