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MediaRange GmbH Zum Quellenpark 29 65812 Bad Soden a.Ts. Germany

Tel.: +49 6196 523 81 80 info@mediarange.de www.mediarange.de

# **MATERIAL SAFETY DATA SHEET (MSDS)**

In accordance with Annex II of Regulation EC/1907/2006 502535, Rechargeable Lithium-Ion Battery, 3.7V, 400mAh, 1.48Wh Installed in Wireless Headset (SKU: MROS307)

### SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier:

502535, Rechargeable lithium ion 3.7V, 400mAh, 1.48Wh, cuboid, Installed in wireless headset (SKU: MROS307)

#### 1.2. Relevant identified uses of the mixture and uses advised against:

Used in Portable Equipment: Installed in wireless headset. For consumer use.

In accordance with Regulation (EC) No 1907/2006 (REACH), the product is considered an article, for which a safety data sheet is not required. The following information is only indicative in order to ensure safe use of the product.

#### 1.3. Details of the supplier of the safety data sheet:

Information about the distributor/importer:

MediaRange GmbH

Zum Quellenpark 29, 65812 Bad Soden am Taunus

Germany

Tel.: +49 (0) 6196 523 8180

1.3.1. Responsible person: Scott Krisztinkovics

E-mail: krisztinkovics@mediarange.de

## **SECTION 2: HAZARDS IDENTIFICATION**

## 2.1. Classification of the mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP):

Not considered as hazardous mixture.

**Hazard statements:** Not applicable for the finished product as an article.

#### 2.2. Label elements:

**Hazard statements:** Not applicable for the finished product as an article.

**Precautionary statements:** Not applicable for the finished product as an article.

#### 2.3. Other hazards:

The batteries are not hazardous when used under normal conditions and according to the instructions of the manufacturer. In case of abuse, there is a hazard of rupture, fire, heat formation and leakage of the internal components which can cause casualty loss. Abuses include but are not limited to the following cases: Charged for a long time, short circuited, put into fire, whacked with hard object, punctured with sharp object, crushed and broken.

Results of PBT and vPvB assessment: No data available.

Endocrine disrupting property: Based on available data, it does not contain endocrine disruptors.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances:

HRB 6501

Not applicable.

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#### 3.2. Mixtures:

Description	CAS number	Conc. (%)
Lithium cobalt oxide (LiCoO2)	12190-79-3	15 – 40
Graphite (C)	7782-42-5	10 – 30
Phosphate (1-), hexafluoro, lithium	21324-40-3	10 – 30
Copper	7440-50-8	7 – 13
Aluminium* Index number: 013-002-00-1 Note T	7429-90-5	5 – 10
Nickel (Ni)	7440-02-0	1 - 5

#### Note T:

This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet.

#### Note 7:

Alloys containing nickel are classified for skin sensitisation when the release rate of 0,5 µg Ni/cm2/week, as measured by the European Standard reference test method EN 1811, is exceeded.

For the full text of hazard statements, see Section 16.

## **SECTION 4: FIRST AID MEASURES**

#### 4.1. <u>Description of first aid measures:</u>

## **INGESTION:**

Measures:

- Give at least 2 glasses of milk or water.
- Induce vomiting if patient is conscious.
- Call a physician.

## **INHALATION:**

Measures:

- Immediately remove victim from the place of exposure to fresh air.
- Give oxygen, if available.

#### **SKIN CONTACT:**

Measures:

- Remove the contaminated clothes.
- Rinse skin with plenty of water or shower for 15 minutes.
- Get medical attention.

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#### **EYE CONTACT:**

Measures:

- Rinse eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.
- Get medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed:

In the event of exposure to the internal contents, vapours may be very irritating to the eyes and skin.

#### 4.3. Indication of any immediate medical attention and special treatment needed:

No special treatment needed; treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media:

#### 5.1.1. Suitable extinguishing media:

Small fire: Water spray, dry chemical, carbon dioxide or chemical foam.

#### 5.1.2. Unsuitable extinguishing media:

No data available.

#### 5.2. Special hazards arising from the substance or mixture:

Dusts at sufficient concentrations can form explosive mixtures with air.

Combustion generates toxic fumes.

Hazardous combustion products: Carbon dioxide.

## 5.3. Advice for firefighters:

Wear full protective clothing and self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures:

### 6.1.1. For non-emergency personnel:

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.

## 6.1.2. For emergency responders:

The following measures apply in the case of rupture:

Attention! Corrosive material. Avoid contact with skin, eyes and clothing.

Ensure adequate ventilation.

Use personal protective equipment as required.

Evacuate personnel to a safe area.

Keep people away from and upwind of the spill.

Refer to protective measures listed in Sections 7 and 8.

## 6.2. Environmental precautions:

Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

## 6.3. Methods and material for containment and cleaning up:

Containment: Stop the leak if it is safe to do so. Contain the spilled liquid with dry sand or earth.

Cleaning up: Clean up spills immediately. Absorb spilled material with inert absorbent material (dry sand, earth). Scoop contaminated absorbent into a suitable waste container. Collect all contaminated absorbent material and dispose of according to the directions given in Section 13. Scrub the area with detergent and water. Collect all contaminated water for proper disposal.

#### 6.4. Reference to other sections:

For further and detailed information see Sections 8 and 13.

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WEEE-Reg. no.: DE86390622 EORI No.: DE6029213 Your contact Scott Krisztinkovics krisztinkovics@mediarange.de Tel.: +49 6196 523 81 86 Date: 03.07.2025 Version: 1.0 Page: 4 / 10



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## SECTION 7: HANDLING AND STORAGE

## 7.1. Precautions for safe handling:

Observe conventional hygiene precautions.

The following measures apply in the case of rupture:

Observe the pertinent regulations on industrial safety and basic hygiene rules.

Avoid contact with skin, eyes and clothing.

#### Technical measures:

in the case of rupture, use personal protective equipment.

#### Precautions against fire and explosion:

The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures.

Do not short circuit or install with incorrect polarity.

## 7.2. Conditions for safe storage, including any incompatibilities:

#### Technical measures and storage condition:

Store in a cool, dry and well-ventilated place, away from incompatible materials.

Store locked up.

Keep out of the reach of children.

**Incompatible materials:** See Section 10.5 **Packaging material:** No special prescriptions.

## 7.3. Specific end use(s):

No specific instructions available.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters:

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):

The components of the mixture are not regulated with exposure limit value.

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term	Long term	Short term	Long term	Short term	Long term
		(acute)	(chronic)	(acute)	(chronic)	(acute)	(chronic)
Company	Local	no data	no data	no data	no data	no data	no data
Consumer	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values				
Compartment	Value	Note(s)		
Freshwater	no data	no notes		
Marine water	no data	no notes		
Freshwater sediment	no data	no notes		
Marine water sediment	no data	no notes		
Sewage Treatment Plant (STP)	no data	no notes		
Intermittent release	no data	no notes		
Secondary poisoning	no data	no notes		
Soil	no data	no notes		

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#### 8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

#### 8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin. Use adequate ventilation to keep airborne concentrations low.

#### 8.2.2. Individual protection measures, such as personal protective equipment:

The information regarding personal protective equipment is only for informative purposes. A complete risk assessment is required before the use of the product for the determination of the appropriate personal protective equipment, taking local circumstances into account.

- 1. **Eye/face protection:** Not required for consumer use. If there is a hazard of contact, use appropriate, tightly sealed protective glasses and/or face protection (EN 166).
- 2. Skin protection:
  - a. **Hand protection:** Not required for consumer use. If there is a hazard of contact, use appropriate protective gloves (EN 374).
  - b. Other: Not required for consumer use. If there is a hazard of contact, use appropriate protective clothing.
- 3. **Respiratory protection:** Not required under normal conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
- 4. Thermal hazards: No thermal hazards known.

#### 8.2.3. Environmental exposure controls:

No specific prescription.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. <u>Information on basic physical and chemical properties:</u>

	Parameter	Value / Test method / Remarks
1.	Physical state	Solid / Prysmatic
2.	Colour	Silver
3.	Odour, odour threshold	if leaking, smell of medical ether
4.	Melting point/freezing point	no data*
5.	Boiling point or initial boiling point and boiling range	no data*
6.	Flammability	not applicable unless individual components are exposed
<i>7</i> .	Lower and upper explosion limit	no data*
8.	Flash point	not applicable unless individual components are exposed
9.	Auto-ignition temperature	no data*
10.	Decomposition temperature	no data*
11.	рН	not applicable as supplied
12.	Kinematic viscosity	no data*
13.	Solubility in water in other solvents	not applicable unless individual components are exposed
14.	Partition coefficient n-octanol/water (log value)	no data*
15.	Vapour pressure	no data*

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16. Density and/or relative density	not applicable unless individual components are exposed
17. Relative vapour density	no data*
18. Particle characteristics	no data*

#### 9.2. Other information:

#### Information with regard to physical hazard classes: 9.2.1.

No further data available or not applicable for the product.

#### 9.2.2. Other safety characteristics:

No other characteristics available.

## **SECTION 10: STABILITY AND REACTIVITY**

10.1. **Reactivity:** 

No reactivity known.

10.2. **Chemical stability:** 

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions:

No hazardous reactions occur under normal processing.

10.4. **Conditions to avoid:** 

Avoid exposure to air or moisture over prolonged periods.

**Incompatible materials:** 10.5.

Acids, oxidizing agents, bases.

10.6. **Hazardous decomposition products:** 

Carbon oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity: Based on available data, the classification criteria are not met.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met. Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

#### 11.1.1. Summaries of the information derived from the test conducted:

No data available.

#### 11.1.2. Relevant toxicological properties:

No data available.

#### 11.1.3. Information on likely routes of exposure:

Ingestion, skin contact, eye contact.

#### 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:

In the event of exposure to the internal contents, vapours may be very irritating to the eves and skin.

### 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

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WEEE-Reg. no.: DE86390622 krisztinkovics@mediarange.de EORI No.: DE6029213 Tel.: +49 6196 523 81 86

<sup>\*:</sup> The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

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No data available.

#### 11.1.6. Interactive effects:

No data available.

#### 11.1.7. Absence of specific data:

No information.

#### 11.2. <u>Information on other hazards:</u>

### **Endocrine disrupting properties:**

Endocrine disrupting property: Based on available data, it does not contain endocrine disruptors.

#### Other information:

The product is an article; no hazardous substances are released during normal use. Nevertheless, in case of fire, explosion, misuse or improper disposal which leads to the damage of the product, hazardous substances may be released.

#### SECTION 12: ECOLOGICAL INFORMATION

## 12.1. <u>Toxicity:</u>

The mixture is not classified as hazardous for the environment.

#### 12.2. Persistence and degradability:

No data available.

#### 12.3. Bioaccumulative potential:

No data available.

## 12.4. Mobility in soil:

No data available.

#### 12.5. Results of PBT and vPvB assessment:

No data available.

### 12.6. <u>Endocrine disrupting properties:</u>

Endocrine disrupting property: Based on available data, it does not contain endocrine disruptors.

## 12.7. Other adverse effects:

Do not allow product in undiluted form or in large quantities to reach ground water, water courses or the sewage system.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

## 13.1. Waste treatment methods:

Disposal according to the local regulations.

#### 13.1.1. Information regarding the disposal of the product:

Recycle or dispose of in accordance with national, regional and local regulations.

Deserted batteries cannot be treated as household waste.

Do not throw into fire or placed in high temperature.

Do not disassemble, pierce or crush.

The best disposal method is recycling.

#### List of Waste Code:

No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

## 13.1.2. Information regarding the disposal of the packaging:

Dispose of in accordance with applicable regulations.

#### 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:

No data available.

#### 13.1.4. Sewage disposal:

No data available.

## 13.1.5. Special precautions for any recommended waste treatment:

No data available.

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## SECTION 14: TRANSPORT INFORMATION

14.1. UN number or ID number:

UN 3481

14.2. UN proper shipping name:

LITHIUM ION BATTERIES (including lithium ion polymer batteries) (limited to a maximum of 30% SoC)

14.3. Transport hazard class(es):

Label:



14.4. Packing group:

No packing group.

14.5. Environmental hazards:

No relevant information available.

14.6. Special precautions for user:

ADR/RID; ADN:

The batteries are not subject to the provisions of United National Economic Commission for Europe (UNECE) ADR/AND if they meet the requirements of special provision 188 of chapter 3.3.

IMDG:

The batteries are not restricted under the IMDG Code according to the special provision 188.

ICAO/IATA:

Can be shipped by air in accordance with ICAO and IATA if packing instructions (PI) 195 are met.

Additional information:

To be permitted in transport, each lithium cell battery types must have passed the applicable tests set out in Subsection 38.3 of the UN Manual of Tests and Criteria.

14.7. Maritime transport in bulk according to IMO instruments:

Not applicable.

#### **SECTION 15: REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

**REGULATION (EC) No 1907/2006** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

**REGULATION (EC) No 1272/2008** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

**COMMISSION REGULATION (EU) 2020/878** of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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15.2. **Chemical safety assessment:** No information.

## **SECTION 16: OTHER INFORMATION**

Information regarding the revision of the safety data sheet: No information.

#### Literature references / data sources:

Safety data sheet issued by the manufacturer (MTi2408288008-02B2/14.09.2024/EN).

#### Methods used for the classification according to Regulation (EC) No 1272/2008:

No classification is required, as the product is an article.

#### Relevant hazard statements (code and full text) of Sections 2 and 3:

H228 - Flammable solid.

**H261** – In contact with water releases flammable gases.

H317 – May cause an allergic skin reaction.

H351 – Suspected of causing cancer < state route of exposure if it is conclusively proven that no other routs of exposure cause

H372 - Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Training advice: No data available.

## Full text of the abbreviations in the safety data sheet:

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived-No-Effect-Level.

ECHA: European Chemical Agency.

EC: European Community.

EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).

EEC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EN: European Norm. EU: European Union.

EWC: European Waste Catalogue (replaced by LoW - see below).

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

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IMDG: International Maritime Dangerous Goods.

IMO: International Maritime Organization.

IMSBC: International Maritime Solid Bulk Cargoes.

IUCLID: International Uniform Chemical Information Database. IUPAC: International Union of Pure and Applied Chemistry.

Kow: n-Octanol - Water Partition Coefficient.

LC50: Lethal concentration resulting in 50 % mortality.

LD50: Lethal dose resulting in 50 % mortality (median lethal dose).

LoW: List of Waste.

LOEC: Lowest Observed Effect Concentration.

LOEL: Lowest Observed Effect Level.

NOEC: No Observed Effect Concentration.

NOEL: No Observed Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.

OECD: Organization for Economic Cooperation and Development.

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic. PNEC: Predicted No Effect Concentration.

QSAR: Quantitative Structure Activity Relationship.

REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

SCBA: Self Contained Breathing Apparatus.

SDS: Safety Data Sheet.

STOT: Specific Target Organ Toxicity. SVHC: Substances of Very High Concern.

UN: United Nations.

UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.

VOC: Volatile Organic Compound.

vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.