

**Trade name:** Lithium-Ion Battery Pack (EAN-No. 790912)

**Product no.:** 790912

**Current version :** 1.0.0, issued: 04.03.2021

**Replaced version:** -, issued: -

**Region:** GB

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name**

**Lithium-Ion Battery Pack (EAN-No. 790912)**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses of the substance or mixture**

Lithium-ion rechargeable battery pack for power tools.

**Uses advised against**

No data available.

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

**Address**

Viega Technology GmbH & Co. KG

Viega Platz 1

57439 Attendorn

Telephone no. +49 2722 610

Fax no. + 49 2722 611415

**Information provided by / telephone**

+49 2722 61-1100

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification information**

This product is an article in the sense of Article 3 of Regulation (EC) 1907/2006 (REACH) and is not subject to labelling according to Article 1, Regulation (EC) 1272/2008 (CLP).

Provision of a safety data sheet is not mandatory for articles according to Article 31 of Regulation (EC) 1907/2006 (REACH) and is done on a voluntary basis.

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

**Hazardous ingredients**

| No | Substance name                              | Additional information                                                                |                        |
|----|---------------------------------------------|---------------------------------------------------------------------------------------|------------------------|
|    | CAS / EC / Index / REACH no                 | Classification (EC) 1272/2008 (CLP)                                                   | Concentration %        |
| 1  | <b>nickel monoxide</b>                      |                                                                                       |                        |
|    | 1313-99-1<br>215-215-7<br>028-003-00-2<br>- | Aquatic Chronic 4; H413<br>Carc. 1A; H350i<br>Skin Sens. 1; H317<br>STOT RE 1; H372** | >= 10.00 - < 25.00 wt% |
| 2  | <b>manganese dioxide</b>                    |                                                                                       |                        |

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|   |                                             |                                                                                               |                    |     |
|---|---------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------|-----|
|   | 1313-13-9<br>215-202-6<br>025-001-00-3<br>- | Acute Tox. 4*; H302<br>Acute Tox. 4*; H332                                                    | >= 10.00 - < 25.00 | wt% |
| 3 | <b>cobalt oxide</b>                         |                                                                                               |                    |     |
|   | 1307-96-6<br>215-154-6<br>027-002-00-4<br>- | Acute Tox. 4*; H302<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>Skin Sens. 1; H317 | >= 10.00 - < 25.00 | wt% |
| 4 | <b>Carbon</b>                               |                                                                                               |                    |     |
|   | 7440-44-0<br>231-153-3<br>-<br>-            | Eye Irrit. 2; H319<br>STOT SE 3; H335                                                         | >= 10.00 - < 25.00 | wt% |
| 5 | <b>lithium hexafluorophosphate(1-)</b>      |                                                                                               |                    |     |
|   | 21324-40-3<br>244-334-7<br>-<br>-           | Skin Corr. 1B; H314<br>Acute Tox. 3; H301<br>STOT RE 1; H372<br>Eye Dam. 1; H318              | >= 10.00 - < 25.00 | wt% |
| 6 | <b>aluminium powder (stabilised)</b>        |                                                                                               |                    |     |
|   | 7429-90-5<br>231-072-3<br>013-002-00-1<br>- | Flam. Sol. 1; H228<br>Water-react. 2; H261                                                    | >= 5.00 - < 10.00  | wt% |
| 7 | <b>copper</b>                               |                                                                                               |                    |     |
|   | 7440-50-8<br>231-159-6<br>-<br>-            | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410                                              | >= 5.00 - < 10.00  | wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*, \*\*, \*\*\*, \*\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|-------------------------------|------------------|--------------------|
| 3  | -    | -                             | M = 10           | M = 10             |
| 6  | T    | -                             | -                | -                  |
| 7  | -    | -                             | M = 10           | -                  |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

| No | Route, target organ, concrete effect |
|----|--------------------------------------|
| 1  | H350i<br>inhalational; -; -          |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

No special measures necessary. The first aid information refers to the electrolyte solution and is only relevant for leaking batteries.

#### After inhalation

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

#### After skin contact

In case of contact with skin wash off with water. Get medical attention if pain still persists.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

#### After ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a doctor immediately.

**Trade name:** Lithium-Ion Battery Pack (EAN-No. 790912)

**Product no.:** 790912

**Current version :** 1.0.0, issued: 04.03.2021

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**Region:** GB

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

dry powder for classification of fires "D"

#### Unsuitable extinguishing media

High power water jet

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

May explode if exposed to heat. In the event of fire, the following can be released: Carbon oxides (CO<sub>x</sub>); Fumes of metal oxides; Hydrogen fluoride (HF)

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Send in suitable containers for recovery or disposal.

### 6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Advice on safe handling

Ensure adequate ventilation. Do not insert batteries in reverse. Observe the polarity markings on battery and equipment.

Do not short-circuit batteries.

Do not charge batteries.

Do not force discharge batteries.

Do not mix batteries.

Do not overheat batteries by exposure to high temperatures and direct sunlight.

Do not weld or solder directly to batteries.

Do not dismantle batteries.

Do not deform batteries.

Do not dispose of batteries in fire.

A battery with a damaged container should not be exposed to water.

Do not allow children to replace batteries without adult supervision.

Keep batteries out of the reach of children. In case of ingestion of a cell or battery, the person involved should seek medical assistance promptly.

Equipment intended for use by children should have battery compartments which are tamper-proof.

**Trade name:** Lithium-Ion Battery Pack (EAN-No. 790912)

**Product no.:** 790912

**Current version :** 1.0.0, issued: 04.03.2021

**Replaced version:** -, issued: -

**Region:** GB

Do not encapsulate and/or modify batteries.

Exhausted batteries should be immediately removed from equipment and disposed of (see section 13).

## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash soiled clothing. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

## Advice on protection against fire and explosion

No special measures necessary. The contents of an open battery may cause fire and/or explosion if exposed to water. Crushed or damaged batteries can cause a fire.

## 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Protect from heat and direct sunlight. Protect against humidity

### Recommended storage temperature

Value appr. 20 °C

### Requirements for storage rooms and vessels

Keep only in the original container.

### Incompatible products

Substances to be avoided, see section 10.

## 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

No parameters available for monitoring.

### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

#### Personal protective equipment

##### Respiratory protection

No special measures required.

##### Eye / face protection

No special measures required.

##### Hand protection

No special measures required.

##### Other

No special measures required.

#### Environmental exposure controls

Do not allow to enter drains or water courses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### State of aggregation

solid

#### Form/Colour

solid

various

#### Odour

odourless

#### pH value

No data available

#### Boiling point / boiling range

Trade name: Lithium-Ion Battery Pack (EAN-No. 790912)

Product no.: 790912

Current version : 1.0.0, issued: 04.03.2021

Replaced version: -, issued: -

Region: GB

|                                                          |           |
|----------------------------------------------------------|-----------|
| No data available                                        |           |
| <b>Melting point/freezing point</b>                      |           |
| No data available                                        |           |
| <b>Decomposition temperature</b>                         |           |
| No data available                                        |           |
| <b>Flash point</b>                                       |           |
| No data available                                        |           |
| <b>Ignition temperature</b>                              |           |
| No data available                                        |           |
| <b>Flammability</b>                                      |           |
| No data available                                        |           |
| <b>Lower explosion limit</b>                             |           |
| No data available                                        |           |
| <b>Upper explosion limit</b>                             |           |
| No data available                                        |           |
| <b>Vapour pressure</b>                                   |           |
| No data available                                        |           |
| <b>Relative vapour density</b>                           |           |
| No data available                                        |           |
| <b>Relative density</b>                                  |           |
| No data available                                        |           |
| <b>Density</b>                                           |           |
| No data available                                        |           |
| <b>Solubility in water</b>                               |           |
| Source                                                   | supplier  |
| Comments                                                 | insoluble |
| <b>Solubility</b>                                        |           |
| No data available                                        |           |
| <b>Partition coefficient n-octanol/water (log value)</b> |           |
| No data available                                        |           |
| <b>Viscosity</b>                                         |           |
| No data available                                        |           |
| <b>Particle characteristics</b>                          |           |
| No data available                                        |           |

**9.2 Other information**

|                                            |
|--------------------------------------------|
| <b>Other information</b>                   |
| Capacitance: 2500 mAh, Voltage: 18 V, d.c. |

**SECTION 10: Stability and reactivity****10.1 Reactivity**

No data available.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Heat, naked flames and other ignition sources. Protect against humidity.

**Trade name:** Lithium-Ion Battery Pack (EAN-No. 790912)**Product no.:** 790912**Current version :** 1.0.0, issued: 04.03.2021**Replaced version:** -, issued: -**Region:** GB**10.5 Incompatible materials**

water; None, if handled according to order.

**10.6 Hazardous decomposition products**

None if stored, handled and transported properly. In case of fire: see section 5.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

No data available

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No data available

**Skin corrosion/irritation**

No data available

**Serious eye damage/irritation**

No data available

**Respiratory or skin sensitisation**

No data available

**Germ cell mutagenicity**

No data available

**Reproduction toxicity**

No data available

**Carcinogenicity**

No data available

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity****Toxicity to fish (acute)**

No data available

**Toxicity to fish (chronic)**

No data available

**Toxicity to Daphnia (acute)**

No data available

**Toxicity to Daphnia (chronic)**

No data available

**Trade name:** Lithium-Ion Battery Pack (EAN-No. 790912)**Product no.:** 790912**Current version :** 1.0.0, issued: 04.03.2021**Replaced version:** -, issued: -**Region:** GB**Toxicity to algae (acute)**

No data available

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**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 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information****Other information**

Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

dispose of in accordance with local regulation.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

|                         |                       |
|-------------------------|-----------------------|
| Class                   | 9                     |
| Classification code     | M4                    |
| UN number               | UN3480                |
| Proper shipping name    | LITHIUM ION BATTERIES |
| Tunnel restriction code | E                     |
| Label                   | 9A                    |

**14.2 Transport IMDG**

|                      |                       |
|----------------------|-----------------------|
| Class                | 9                     |
| UN number            | UN3480                |
| Proper shipping name | LITHIUM ION BATTERIES |
| EmS                  | F-A, S-I              |
| Label                | 9                     |

**14.3 Transport ICAO-TI / IATA**

|                      |                       |
|----------------------|-----------------------|
| Class                | 9                     |
| UN number            | UN3480                |
| Proper shipping name | Lithium ion batteries |

Trade name: Lithium-Ion Battery Pack (EAN-No. 790912)

Product no.: 790912

Current version : 1.0.0, issued: 04.03.2021

Replaced version: -, issued: -

Region: GB

Label

9

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the article does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name  | CAS no.   | EC no.    | No     |
|----|-----------------|-----------|-----------|--------|
| 1  | nickel monoxide | 1313-99-1 | 215-215-7 | 27, 28 |

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**15.2 Chemical safety assessment**

Not required.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

|      |                                                 |
|------|-------------------------------------------------|
| H228 | Flammable solid.                                |
| H261 | In contact with water releases flammable gases. |
| H301 | Toxic if swallowed.                             |
| H302 | Harmful if swallowed.                           |
| H314 | Causes severe skin burns and eye damage.        |
| H317 | May cause an allergic skin reaction.            |

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|       |                                                                 |
|-------|-----------------------------------------------------------------|
| H318  | Causes serious eye damage.                                      |
| H319  | Causes serious eye irritation.                                  |
| H332  | Harmful if inhaled.                                             |
| H335  | May cause respiratory irritation.                               |
| H350i | May cause cancer by inhalation.                                 |
| H372  | Causes damage to organs through prolonged or repeated exposure. |
| H400  | Very toxic to aquatic life.                                     |
| H410  | Very toxic to aquatic life with long lasting effects.           |
| H413  | May cause long lasting harmful effects to aquatic life.         |

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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. |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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Prod-ID 768801