# SAFETY DATA SHEET

**HCS-2012 APPENDIX D TO §1910.1200**

**Version** 1 **Issue date** 10-Nov-2016
**Product name** Omnicharge Standard **Revision date** 10-Nov-2016

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

| | |
|---|---|
| Product name | Omnicharge Standard |

**Other means of identification**

| | |
|---|---|
| Cas | No information available. |

**Recommended use of the chemical and restrictions on use**

| | |
|---|---|
| Recommended use | Recharge electronic products |
| Uses advised against | No information available. |

**Details of the supplier of the safety data sheet**

| | |
|---|---|
| Supplier | Omnicharge.Inc |
| Address | 21731 Ventura Blvd, STE 180, Woodland Hills, CA 91364 |
| Postal code | 91364 |
| Phone | +1 (323)647-5608 |
| FAX | - |
| E-mail | info@omnicharge.co |
| | |
| Importer | |
| Address | |
| Postal code | |
| Phone | |
| FAX | |
| E-mail | |

**Emergency telephone number**

+1 (323)647-5608

## 2. HAZARDS IDENTIFICATION

**GHS classification**

Not classified

**Label elements**

| | |
|---|---|
| Symbols/Pictograms | None |
| Signal word | None |
| Hazard statements | Not classified |
| Precautionary statements | |
| Prevention | None. |
| Response | None. |
| Storage | None. |
| Disposal | Dispose of contents/container to an approved waste disposal plant. |

**Hazards not otherwise classified (HNOC)**

No information available.

**Unknown acute toxicity**

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature** Other Articles - 4 batteries, 376 g in weight

| Chemical name | CAS No | Weight-% |
|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) | 12190-79-3 | 20~60 |
| Iron | 7439-89-6 | 1~30 |
| Organic electrolyte principally involves ester carbonate | - | 5~25 |
| Copper | 7440-50-8 | 1~15 |
| Carbon | 7440-44-0 | 10~30 |
| Aluminum | 7429-90-5 | 10~30 |

## 4. FIRST AID MEASURES

**Description of first aid measures**

General advice: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth. Get medical attention. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No information available.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides (COx). metal oxides.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers with flooding quantities of water until well after fire is out. Evacuate personnel to safe areas.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Remove all sources of ignition. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Do not touch or walk through spilled material. Ensure adequate ventilation, especially in confined areas. Use personal protection recommended in Section 8. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

### Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protection recommended in Section 8. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Store in accordance with local regulations.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH | Denmark | European Union |
|---|---|---|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) (CAS #: 12190-79-3) | TWA: 0.02 mg/m$^3$ Co | - | - | TWA: 0.01 mg/m$^3$ | - |
| Copper (CAS #: 7440-50-8) | TWA: 0.2 mg/m$^3$ fume TWA: 1 mg/m$^3$ Cu dust and mist | - | IDLH: 100 mg/m$^3$ dust, fume and mist IDLH: 100 mg/m$^3$ Cu dust and mist TWA: 1 mg/m$^3$ dust and mist TWA: 0.1 mg/m$^3$ fume TWA: 1 mg/m$^3$ Cu dust and mist | TWA: 1.0 mg/m$^3$ TWA: 0.1 mg/m$^3$ | - |
| Aluminum (CAS #: 7429-90-5) | TWA: 1 mg/m$^3$ respirable fraction | TWA: 15 mg/m$^3$ total dust TWA: 5 mg/m$^3$ respirable fraction (vacated) TWA: 15 mg/m$^3$ total dust (vacated) TWA: 5 mg/m$^3$ respirable fraction (vacated) TWA: 5 mg/m$^3$ Al Aluminum | TWA: 10 mg/m$^3$ total dust TWA: 5 mg/m$^3$ respirable dust TWA: 5 mg/m$^3$ Al | TWA: 5 mg/m$^3$ TWA: 2 mg/m$^3$ | - |

| Chemical name | Latvia | France | Finland | Germany | Italy |
|---|---|---|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) (CAS #: 12190-79-3) | | - | TWA: 0.02 mg/m$^3$ | Skin | - |
| Copper (CAS #: 7440-50-8) | TWA: 0.5 mg/m$^3$ STEL: 1 mg/m$^3$ | TWA: 0.2 mg/m$^3$ TWA: 1 mg/m$^3$ STEL: 2 mg/m$^3$ | TWA: 1 mg/m$^3$ TWA: 0.1 mg/m$^3$ | TWA: 0.01 mg/m$^3$ Ceiling / Peak: 0.02 mg/m$^3$ Ceiling / Peak: 0.2 mg/m$^3$ | - |
| Aluminum (CAS #: 7429-90-5) | TWA: 2 mg/m$^3$ | TWA: 10 mg/m$^3$ TWA: 5 mg/m$^3$ | TWA: 1.5 mg/m$^3$ | TWA: 4 mg/m$^3$ TWA: 1.5 mg/m$^3$ | - |

| Chemical name | Poland | Portugal | Spain | Switzerland | Netherlands |
|---|---|---|---|---|---|
| Copper (CAS #: 7440-50-8) | - | - | - | - | TWA: 0.1 mg/m$^3$ |
| Aluminum (CAS #: 7429-90-5) | TWA: 2.5 mg/m$^3$ TWA: 1.2 mg/m$^3$ | TWA: 10 mg/m$^3$ TWA: 5 mg/m$^3$ | TWA: 10 mg/m$^3$ TWA: 5 mg/m$^3$ | TWA: 3 mg/m$^3$ | - |

| Chemical name | Norway | United Kingdom | Australia | Austria | Belgium |
|---|---|---|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) (CAS #: 12190-79-3) | TWA: 0.02 mg/m$^3$ STEL: 0.02 mg/m$^3$ | - | - | Skin | - |

| | | | | | |
|---|---|---|---|---|---|
| Copper (CAS #: 7440-50-8) | TWA: 0.1 mg/m$^3$<br>TWA: 1 mg/m$^3$<br>STEL: 0.1 mg/m$^3$<br>STEL: 1 mg/m$^3$ | - | 1 mg/m$^3$<br>0.2 mg/m$^3$ | STEL 4 mg/m$^3$<br>STEL 0.4 mg/m$^3$<br>TWA: 1 mg/m$^3$<br>TWA: 0.1 mg/m$^3$ | - |
| Carbon (CAS #: 7440-44-0) | - | - | - | TWA: 5 mg/m$^3$ | - |
| Aluminum (CAS #: 7429-90-5) | TWA: 5 mg/m$^3$<br>STEL: 5 mg/m$^3$ | STEL: 30 mg/m$^3$<br>STEL: 12 mg/m$^3$<br>TWA: 10 mg/m$^3$<br>TWA: 4 mg/m$^3$ | 10 mg/m$^3$<br>5 mg/m$^3$ | STEL 20 mg/m$^3$<br>TWA: 10 mg/m$^3$ | - |

**Appropriate engineering controls**

Showers. Eyewash stations. Use with local exhaust ventilation.

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| Respiratory protection | If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. |
| Hand protection | Wear protective gloves. |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Skin and body protection | Wear suitable protective clothing. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

| | |
|---|---|
| **Appearance** | Solid |
| **Color** | Black/White |
| **Odor** | Odorless |
| **Odor threshold** | Not determined |
| **pH** | Not determined |
| **Melting point/freezing point** | Not determined |
| **Boiling point / boiling range** | Not determined |
| **Flash point** | Not determined |
| **Evaporation rate** | Not determined |
| **Flammability (solid, gas)** | Not determined |
| **Flammability limit in air** | Not determined |
| **Vapor pressure** | Not determined |
| **Vapor density** | Not determined |
| **Density** | Not determined |
| **Partition coefficient (LogPow)** | Not determined |
| **Autoignition temperature** | Not determined |
| **Decomposition temperature** | Not determined |
| **Kinematic viscosity** | Not determined |
| **Dynamic viscosity** | Not determined |
| **Explosive properties** | Not an explosive |
| **Oxidizing properties** | Not determined |

**Other information**

No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**

No known effects under normal use conditions.

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Extremes of temperature and direct sunlight.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

None under normal use conditions

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

| | |
|---|---|
| Inhalation | No known effect based on information supplied. |
| Eye contact | No known effect based on information supplied. |
| Skin contact | No known effect based on information supplied. |
| Ingestion | No known effect based on information supplied. |

**Information on toxicological effects**

**Acute toxicity**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) (CAS #: 12190-79-3) | > 5 000 mg/kg bw | > 2 000 mg/kg bw | - |
| Iron (CAS #: 7439-89-6) | 98.6 g/kg bw (rat) | - | - |
| Carbon (CAS #: 7440-44-0) | > 10000 mg/kg ( Rat ) | - | - |
| Copper (CAS #: 7440-50-8) | > 2500 mg/kg bw(rat) | > 2000 mg/kg bw(rat) | =1.03 mg/L/4 h(rat) |

**Skin corrosion/irritation**

Non-irritating to the skin.

**Serious eye damage/eye irritation**

No eye irritation.

**Sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) (CAS #: 12190-79-3) | A3 | Group 2B | - | - |

**Reproductive toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

| Chemical name | Algae/Aquatic plants EC50 | Fish LC50 | Crustacea EC50 |
|---|---|---|---|
| Lithium transition metal oxide (Li[M]m[O]n *2) (CAS #: 12190-79-3) | - | 275 mg/L/96h(Fundulus heteroclitus) | - |
| Iron (CAS #: 7439-89-6) | - | 13.6: 96 h Morone saxatilis mg/L LC50 static | > 100 mg/L/48h (Daphnia magna) |
| Copper (CAS #: 7440-50-8) | 0.031 - 0.054 mg/L/96h Pseudokirchneriella subcapitata static 0.0426 - 0.0535 mg/L/72h Pseudokirchneriella subcapitata static | 1.25: 96 h Lepomis macrochirus mg/L LC50 static 0.3: 96 h Cyprinus carpio mg/L LC50 semi-static 0.8: 96 h Cyprinus carpio mg/L LC50 static 0.112: 96 h Poecilia reticulata mg/L LC50 flow-through 0.0068 - 0.0156: 96 h Pimephales promelas mg/L LC50 0.3: 96 h Pimephales promelas mg/L LC50 static 0.2: 96 h Pimephales promelas mg/L LC50 flow-through 0.052: 96 h Oncorhynchus mykiss mg/L LC50 flow-through | - |

**Persistence and degradability**

No information available.

**Bioaccumulative potential**

No information available.

**Mobility in soil**

No information available.

**Other adverse effects**

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging: Dispose of in accordance with federal, state and local regulations.

| Chemical name | California Hazardous Waste Status |
|---|---|
| Lithium transition metal oxide (Li[M]m[O]n *2) 12190-79-3 | Toxic |
| Copper 7440-50-8 | Toxic |
| Aluminum 7429-90-5 | Ignitable powder |

## 14. TRANSPORT INFORMATION

**DOT**

**UN/ID No.** 3480 (for air transportation)
**UN proper shipping name** LITHIUM ION BATTERIES (including lithium ion polymer batteries)
**Hazard class** 9
**Packing group** II
**Special precautions** No information available

**Identification Criteria** IATA DGR 58th
**Marine pollutant** This product contains a chemical which is listed as a severe marine pollutant according to DOT

## 15. REGULATORY INFORMATION

**International inventories**

| Component | AICS | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | TSCA |
|---|---|---|---|---|---|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) 12190-79-3 ( 20~60% ) | X | X | X | X | X | X | - | X |
| Iron 7439-89-6 ( 1~30% ) | X | X | X | - | X | X | X | X |
| Copper 7440-50-8 ( 1~15% ) | X | X | X | - | X | X | X | X |
| Carbon 7440-44-0 ( 10~30% ) | X | X | X | - | X | X | X | X |
| Aluminum 7429-90-5 ( 10~30% ) | X | X | X | - | X | X | X | X |

*"-" Not Listed*
*"X" Listed*

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | SARA 313 - Threshold Values % |
|---|---|
| Aluminum - 7429-90-5 | 1.0 |

**SARA 311/312 Hazard Categories**

Not applicable

**CWA (Clean Water Act)**

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Copper 7440-50-8 | - | X | X | - |

**CERCLA**

Not applicable

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Lithium transition metal oxidate (Li[M]m[O]n *2) 12190-79-3 | X | - | - |
| Aluminum 7429-90-5 | X | X | X |

| | | | |
|---|---|---|---|
| Copper<br>7440-50-8 | X | X | - |

## 16. OTHER INFORMATION

**Revision note**

| | |
|---|---|
| Issue date | 10-Nov-2016 |
| Revision date | 10-Nov-2016 |
| Revision note | Not applicable |

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**TWA** - TWA (Time Weighted Average)
**STEL** - STEL (Short Term Exposure Limit)
**Ceiling** - Maximum limit value
**TSCA** - Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European INventory of Existing Commercial chemical Substances/European LIst of Notified Chemical Substances
**ENCS** - Japanese Existing and New Chemical Substances
**IECSC** - Chinese Chemical Inventory of Existing Chemical Substances
**KECL** - Korea Existing Chemicals List
**PICCS** - The Philippine Inventory of Chemicals and Chemical Substances
**AICS** - The Australian Inventory of Chemical Substances

**Disclaimer**

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**-------- End of Safety Data Sheet --------**