

Safety Data Sheet

## 1. Product &amp; Company Identification

**A. Product Name**

EvoFill Duo Lithium-Ion Battery

**B. Purpose of Use & Restrictions on Use**

Purpose of Use EvoFill Duo Battery

Restrictions on Use For dental professionals only

**C. Company Information**

Company Name DiaDent Group International

Address 16 Osongsaengmyeong 4-ro, Osong-eup, Heungdeok-gu,  
Cheongju-si, Chungcheongbuk-do, Republic of Korea  
28161

Emergency Contact Number 82-43-266-2315

## 2. Hazard Identification

**A. GHS Classification**

Self-heating substance or mixture: Category 2

Specific Target Organ Toxicity (Single Exposure): Category 3, Respiratory System

**B. GHS Label elements including precautionary statements**

Pictograms



Signal Words

Caution

Hazard Statement(s)

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage

Precautionary Statement(s)

Prevention

P235+P410 Keep cool. Protect from sunlight

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/  
eye protection/face protection

Response

P304+P340 IF INHALED: Remove victim to fresh air and  
keep at rest in a position comfortable for breathingP312 Call a POISON CENTER or doctor/physician if you  
feel unwell

Storage

P403+P233 Store in a well-ventilated place, Keep container  
tightly closed

P405 Store locked up

P407 Maintain air gap between stacks/pallets

## Disposal

P413 Store bulk masses greater than 10kg / 22lbs at temperatures not exceeding 40°C / 104°F

P420 Store away from other materials

P510 Dispose of contents/container according to regulations.

**C. Other hazards (according to the NFPA Rating System)**

Health	1
Flammability	1
Reactivity	0

**3. Composition & Information on Ingredients**

Chemical Identity	Common Name	CAS Number	% Volume
Aluminium foil	-	7429-90-5	2 - 10 %
Metal Oxide (Proprietary)	-		20~50 %
Polyvinylidene fluoride (PVdF)	-	24937-79-9	< 5 %
Carbon (Proprietary)	-	7440-44-0	10~30 %
Copper foil	-	7440-50-8	2 - 10 %
Electrolyte (Proprietary)	-	-	10~20 %
Stainless Steel, Nickel and inert materials	-	Remainder	N/A

**4. First Aid Measures**

<b>A. Eyes</b>	N/A
<b>B. Skin</b>	N/A
<b>C. Inhalation</b>	N/A
<b>D. Ingestion</b>	N/A
<b>E. Notes to Physicians</b>	N/A

**5. Fire Fighting Measures****A. Appropriate Extinguishing Media**

Use extinguishing media suitable for the materials burning in fire.

**B. Specific hazard arising from the chemical**

Cell is not flammable but internal organic material will burn if the cell is incinerated.

Combustion products include, but are not limited to, hydrogen fluoride, carbon monoxide, and carbon dioxide.

If possible, remove cell(s) from fire-fighting area. If heated above 125°C, cell(s) can explode/vent.

**C. Special protective equipment & Precautions for firefighters**

Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear. Stay away in a safe distance from the fire while extinguishing.

**6. Accidental Release Measures**

**A. Protective equipment & Emergency procedures**

Give special attention to chemical materials and conditions that must be avoided.

**B. Environmental precautions**

Prevent the inflow of this product to waterways, drains, basements, and confined spaces.

**C. Purification / Removal Method**

Dispose of the product as medical waste.

**7. Handling & Storage****A. Safe handling**

Follow all prevention measures on the SDS/labels.

Handle and store with care.

Give special attention to chemical materials and conditions that must be avoided.

Wear personal protective equipment while handling the product.

**B. Conditions for Safe Storage**

Store in a cool, dry place.

**8. Exposure control & Personal protection****A. Exposure Limits for Chemical Substances & Biological Exposure Limits**

N/A

**B. System Design (Proper Engineering Controls)**

N/A

**2. C. Personal protective equipment**

Respiratory protection

N/A

**4. F. Eye protection**

N/A

Hand protection

N/A

Skin &amp; body protection

N/A

**9. Physical & Chemical Properties****A. Appearance****Physical state****Solid****Color**

N/A

**B. Odor**

N/A

**C. Odor threshold value**

N/A

**D. pH**

N/A

**E. Melting point/Freezing point**

N/A

**F. Initial boiling point & Boiling range**

N/A

**G. Flash point**

N/A

**H. Evaporation rate**

N/A

**I. Flammability (solid, gas)**

N/A

**J. Maximum / minimum of the flammable or explosive limits**

N/A

**K. Vapor pressure**

N/A

**L. Solubility****Insoluble****M. Vapor density**

N/A

**N. Relative density**

N/A

**O. Partition coefficient: n-Octanol/water**

N/A

**P. Auto-ignition temperature**

N/A

**Q. Decomposition temperature**

N/A

**R. Viscosity**

N/A

**S. Molecular weight**

N/A

## 10. Stability & Reactivity N/A

<b>A. Chemical stability &amp; Possibility of hazardous reactions</b>	N/A
<b>B. Conditions to avoid</b>	Avoid heat and open flame. Do not puncture, crush or incinerate.
<b>C. Incompatible materials</b>	N/A
<b>D. Hazardous decomposition or byproduct</b>	None during normal operating conditions. If cells are opened, hydrogen fluoride and carbon monoxide may be released.

## 11. Toxicological Information

<b>A. Possible routes of exposure</b>	N/A
<b>B. Information on harmful health effects</b> (Symptoms related to the physical, chemical and toxicological characteristics)	
<b>Acute toxicity</b>	
Oral	N/A
Dermal	N/A
Inhalation	N/A
Skin corrosion/Irritation	N/A
Serious Eyes damage/Irritation	N/A
Respiratory sensitization	N/A
Skin sensitization	N/A
Carcinogenicity	N/A
2. Hazardous to the Aquatic Environment	N/A
Notification of the Ministry of Employment and Labor	N/A
4. First Aid Measures	
IARC	N/A
OSHA	N/A
ACGIH	N/A
NTP	N/A
EU CLP	N/A
Germ cell mutagenicity	N/A
Reproductive Toxicity	N/A
Specific Target Organ Toxicity (Single Exposure)	N/A
Specific Target Organ Toxicity (Repeated Exposure)	N/A
Aspiration Toxicity	N/A

## 12. Ecological information

<b>A. Ecotoxicity</b>	
Fish	N/A
Shellfish	N/A
Birds	N/A
<b>B. Persistence &amp; Degradability</b>	
Persistence	N/A
Degradability	N/A
<b>C. Bioaccumulative potential</b>	
Accumulation	N/A
Biodegradability	N/A
<b>D. Mobility in soil</b>	N/A
<b>E. Other adverse effects</b>	N/A

### 13. Disposal Considerations

#### A. Product Disposal

If stated in the Wastes Control Act, dispose of the contents and container accordingly.

#### B. Precautions for Disposal

Dispose of the content according to the related regulations.

### 14. Transport Information

#### A. UN Number

Classification information on transportation of hazardous materials not available

#### B. Proper shipping name

N/A

#### C. Hazard class

N/A

#### D. Packing Group

N/A

#### E. Marine pollutant

N/A

**F. Any special precautions which an user should be aware of or needs to comply with, in connection with transport or conveyance either within or outside their premises (Special precautions which a user needs to be aware of or needs to comply outside their premises with in connection with transport or conveyance either within or outside their premises)**

Emergency procedures in case of fire

N/A

Emergency procedures in case of spill/leak

N/A

### 15. Regulatory Information

**A. Regulations according to the Industrial Safety and Health Act**

N/A

**B. Regulations according to the Toxic Chemicals Control Act**

N/A

**C. Regulations according to the Safety Control of Dangerous Substances Act**

N/A

**D. Regulations according to the Safety Wastes Control Act**

N/A

**E. Other regulations according to domestic and foreign laws**

- Follow the regulations of the KFDA (Korea Food & Drug Administration).

- Follow the regulations of the Directive 93/42/EEC and 2007/42/EC.

### 16. Other Information

#### A. Source of Data

#### B. Date of Creation

11 / 13 / 2015

#### C. Revision Number and Revision Date

Revision Number

1

Date of Last Revision

03 / 28 / 2017

#### E. Other Information

The information and recommendations are taken from sources (raw material SDS(s) and manufacturer's knowledge) believed to be accurate and reliable. It is intended to describe the product according to various safety requirements; however, the manufacturer makes no warranty with respect to the accuracy and completeness of the information or the suitability of the recommendation and assumes no liability to any user thereof.