

Safety Data Sheet**1. Product & Company Identification****A. Product Name**

Duo-Gun Lithium-Ion Battery

B. Purpose of Use & Restrictions on Use

Purpose of Use Duo-Gun 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 breathing
 P312 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
Aluminum 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

A. Eyes	N/A
B. Skin	N/A
C. Inhalation	N/A
D. Ingestion	N/A
E. Notes to Physicians	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 s

N/A

Hand protection

N/A

Skin & 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

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

11. Toxicological Information

A. Possible routes of exposure	N/A
B. Information on harmful health effects / Acute Toxicity (Symptoms related to the physical, chemical and toxicological characteristics)	

Oral	N/A
Dermal	N/A
Inhalation	N/A
Skin corrosion/Irritation	N/A
Respiratory sensitization	N/A
Skin sensitization	N/A
Carcinogenicity	N/A
Industrial Safety and Health Act	N/A
Notification of the Ministry of Employment and Labor	N/A
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

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

N/A

B. Date of Creation

09 / 01 / 2018

C. Revision Number and Revision Date

Revision Number

0

Date of Last Revision

E. Other Information

N/A

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.