

SAFETY DATA SHEET

Product Name:	Y5087828 / RECHARGEABLE LITHIUM ION BATTERY PACK (BRADY M511 PRINTER WITH LI- ION BATTERY)	According to GB/T 16483, GB	/T 17519
Date of Revision:	-	SDS No.:	BRADY/CHN/009
Date of First Issue:	14.02.2023	Version:	1

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1	GHS Product Identifier	
	Product Name (English)	Y5087828 / RECHARGEABLE LITHIUM ION BATTERY PACK (BRADY M511 PRINTER WITH LI-ION BATTERY)
	Other means of identification	Lithium Ion Battery Pack Packed in Equipment
	Model number	Y5087828
	CAS number	Not applicable (Article)
1.2	Details of the supplier of the Safety Data Sheet	
	Manufacturer	Orient Technology (S) Ptd Ltd
		178, Paya Lebar Road,
		Singapore, 409030.
	U.S. Supplier	Inventus Power, Inc.
		1200 Internationale Parkway,
		Woodridge, IL 60517 USA.
		Tel: (414) 358-6600 [8am – 5pm CT]
	European Supplier	WH Brady NV
		Lindestraat 20, Industriepark C3,
		B-9240 Zele, Belgium.
		Tel: 0032/(0)52.45.79.05 [9am – 5pm]
	E-mail	REACH_Americas@bradycorp.com
1.3	Emergency telephone number	Infotrac: 1-800-535-5053 (U.S. and Canada) [24 hours]
1.4	Recommended use of the chemical and restriction	ns on use
	Identified use(s)	Brady M511 Printer with Lithium Ion Battery.
	Uses advised against	None known.

SECTION 2: HAZARD OVERVIEW

2.1	Emergency overview Product as supplied: Solid article. Unlikely to cause harmful effects under normal conditions of handling and use.			
2.2	According to GB30000-2013	Y5087828 / RECHARGEABLE LITHIUM ION BATTERY PACK (BRADY M511 PRINTER WITH LI-ION BATTERY) is considered to be an article. Unlikely to cause harmful effects under normal conditions of handling and use. This information is applicable to damaged, leaking or spilled product. This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product. Not classified as hazardous for supply.		

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2.3	Label elements	
	Hazard pictogram(s)	None.
	Signal word(s)	None.
	Hazard statement(s)	None.
	Precautionary statement(s)	
	Prevention	None.
	Response	None.
	Storage	None.
	Disposal	None.
2.4	Physical and chemical hazards	None.
	Health hazards	None.
	Environmental hazards	None.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	%W/W	CAS No.
The following materials are part of the case of	the battery:	
Aluminum (non-pyrophoric solid)	-	7429-90-5
Polycarbonate casing	-	-
The following materials are for the battery sep	arator composite:	
Polyethylene	-	9002-88-4
Polyethylene terephthalate	-	25038-59-9
The following materials are in the electrolyte m	nixture in the battery:	
Diethyl carbonate	-	105-58-8
Dimethyl carbonate	-	616-38-6
Ethylene carbonate	-	96-49-1
Ethyl methyl carbonate	-	623-53-0
Lithium hexafluorophosphate (LiPF ₆)	-	21324-40-3
Propylene carbonate	-	108-32-7
The following materials are for the battery cath	node:	
Aluminum (non-pyrophoric solid)	-	7429-90-5
Copper	-	7440-50-8
Lithium nickel cobalt aluminum	-	131344-56-4
oxides		
Nickel metal	-	7440-02-0
The following materials are for the battery ano	de:	
Carbon black	-	1333-86-4
Graphite [negative electrode]	-	7440-44-0
Silicon	-	7440-21-3
Steel (as alloy of Fe)	-	7439-89-6
The following materials are for the Anode Li-C	MC binder:	
Carboxymethyl cellulose sodium salt	-	9004-32-4
Polyvinylidene fluoride	-	24937-79-9
Styrene butadiene rubber	-	9003-55-8

monoxide, carbon dioxide. Hydrofluoric acid and hydrogen gas will be formed when electrolyte solution react with water.

protective clothing should be worn in fire conditions.

watercourses, sewers and confined spaces.

SECTION 4: FIRST AID MEASURES

Information caused by electrolyte mixture in the battery:

4.1	Description of first aid measures	
	Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
	Skin Contact	Remove/ take off immediately all contaminated clothing. Rinse skin with water/ shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
	Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
	Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/ physician.
4.2	Most important symptoms and effects	Inhalation may cause moderate to severe irritation of the respiratory system. Skin and eye contact may cause burns or highly irritating
4.3	Suggestions for doctor	No antidotes known. Treat symptomatically.
SECT	ION 5: FIREFIGHTING MEASURES	
5.1	Extinguishing media	In case of fire use dry chemical to extinguish. Do not use water.
5.2	Special Hazards	Explosion risk in case of fire. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback. May give off toxic fumes in a fire. Carbon

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5.3 Fire fighting measures and special precautions Evacuate area and fight fire remotely due to the risk of explosion. A self contained breathing apparatus and suitable

SECTION 6: ACCIDENTAL RELEASE MEASURES

Information caused by electrolyte mixture in the battery:

6.1 Personal precautions, protective equipment and emergency procedures
6.2 Environmental precautions
6.2 Environmental precautions
Ensure adequate ventilation. Keep away from heat and sources of ignition. In case of fire: Evacuate area. Avoid breathing fume/ vapours. Avoid contact with skin and eyes. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of inadequate ventilation wear respiratory protection.
Stop leak if safe to do so. Prevent liquid entering

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6.3	Methods and cleaning up	l material for containment and		Wipe up remainder. Transfer to al. Wash spill site with water and
SECT	ION 7: HAN	DLING AND STORAGE		
7.1	Precautions	for safe handling		rfaces, sparks, open flames and noking. Avoid friction, sparks, or
7.2	incompatibili		heat other ignition sources, reducing agents, potassium moist air, water, oils and solv	I and dry place. Keep away from acids, oxidising agents, alkalis, a tert-butoxide, direct sunlight, ents.
	Storage Temp Storage Life Incompatible		Less than 60 °C/ 140 °F Stable under normal conditio Acids, oxidising agents, alka tert-butoxide, water, oils and	lis, reducing agents, potassium

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

No known hazards are associated with the use of this article.

8.1 Occupational Exposure Limits

Composition	CAS No.	MAC	PC-TWA	PC-STEL	Remarks
		(mg/m³)	(mg/m³)	(mg/m³)	
-	-	-	-	-	-

8.2 Biological limit value

Composition	CAS No.	Biological monitoring Index	Occupational biological exposure limit	Sampling Time
-	-	-	-	-

8.3 Appropriate engineering controls

Provide adequate ventilation.

8.4 Personal protection equipment

Eye/face protectionNot normally required.Skin protection (Hand protection/ Body protection)Not normally required.Respiratory protectionNo respiratory protection is required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid.
Colour	Various.
Odour	Odourless.
Odour Threshold	Not applicable.
рН	Not applicable.
Melting Point/Freezing Point	No data.
Initial boiling point and boiling range	Not applicable.
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not flammable.

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9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	Stable under normal conditions.
10.4	Conditions to avoid	Keep away from heat and other ignition sources, direct sunlight, moist air.
10.5	Incompatible materials	Acids, oxidising agents, alkalis, reducing agents, potassium tert-butoxide, water, oils and solvents
10.6	Hazardous decomposition products	Toxic fumes, carbon monoxide, carbon dioxide. Hydrofluoric acid and hydrogen gas will be formed when electrolyte solution react with water.

SECTION 11: TOXICOLOGICAL INFORMATION

No known hazards are associated with the use of this article.

11.1	Information on toxicological effects Acute toxicity	Not classified.
	Skin corrosion/irritation	Not classified.
	Serious eye damage/irritation	Not classified.
	Respiratory or skin sensitization	Not classified.
	Germ cell mutagenicity	Not classified.
	Carcinogenicity	Not classified.
	Reproductive toxicity	Not classified.
	Specific target organ toxicity — single exposure	Not classified.
	Specific target organ toxicity — repeated exposure	Not classified.

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	Aspiration hazard		Not classified.	
11.2	11.2 Other information		None.	
SECTION 12: ECOLOGICAL INFORMATION				

No environmental hazards have been reported or known.

12.1	Toxicity	Not classified.
12.2	Persistence and degradability	The product is not biodegradable.
12.3	Bioaccumulative potential	No data.
12.4	Mobility in soil	The product has low mobility in soil.
SECTION 13: DISPOSAL		
13.1	Dispose of chemical	Dispose at suitable refuse site.
13.2	Dispose of containers	Recycle only completely emptied packaging.
13.2	Disposal precautions	Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1	UN number – ADR/ IMDG/ IATA	UN3480	UN3481
14.2	UN Proper Shipping Name – ADR/ IMDG/ IATA	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT or LITHIUM ION BATTERIES PACKED WITH EQUIPMENT
14.3	Transport hazard class(es) – ADR/ IMDG/ IATA	9	9
14.4	Packing Group – ADR/ IMDG/ IATA	-	
14.5	Environmental hazards – ADR/ IMDG/ IATA	Not classified as a Marine Pollutant.	Not classified as a Marine Pollutant.
14.6	Special precautions for user – ADR/ IMDG/ IATA	See Also Section: 7, 10.	See Also Section: 7, 10.
14.7	Additional information	348, 360, 376, 377, 387, 636 Limited Quantities: 0 Excepted Quantities: E0 Packing Instruction: P903, P908,	ADR Classification Code: M4 Labels: Class 9A Special Provisions: 188, 230, 310, 348, 360, 376, 377, 387, 390, 670 Limited Quantities: 0 Excepted Quantities: E0 Packing Instruction: P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906 Special Packing Provisions: - Mixed Packing Provisions: -

Product Na	me:
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Portable Tanks and Bulk Containers: -Portable Tanks and Bulk Containers: -Tunnel Restriction Code: 2(E)Tunnel Restriction Code: 2(E)Hazard Identification Number: -Hazard Identification Number: -

IMDG Labels: Class 9 Miscellaneous Lithium Battery	IMDG Labels: Class 9 miscellaneous hazard label
Special Provisions: 188, 230, 310, 348, 376, 377, 384, 387	Special Provisions: 188, 230, 310, 348, 360, 376, 377, 384, 387, 390
Limited Quantities: 0	Limited Quantities: 0
Excepted Quantities: E0 Packing Instruction: P903, P908,	Excepted Quantities: E0 Packing Instruction: P903, P908,
P909, P910, P911, LP903, LP904, LP905, LP906.	P909, P910, P911, LP903, LP904, LP905, LP906.
IBC: -	IBC: -
Tanks: -	Tanks: -
EmS: F-A, S-I Stowage Category: Category A, SW19 Segregation: -	EmS: F-A, S-I Stowage Category:Category A, SW19 Segregation: -

ΙΑΤΑ ΙΑΤΑ Labels: Class 9 Miscellaneous Lithium Labels: Class 9 miscellaneous hazard Battery label Excepted Quantities: E0 Excepted Quantities: E0 Packing Instruction - Passenger: Packing Instruction - Passenger: Forbidden Forbidden Maximum Net Quantity per Pkg - Maximum Net Quantity per Pkg -Passenger: Forbidden Passenger: Forbidden Packing Instruction - Passenger (LQ): Packing Instruction - Passenger (LQ): Forbidden 966 or 967 Maximum Net Quantity per Pkg - Maximum Net Quantity per Pkg -Passenger (LQ): Forbidden Passenger (LQ): 5kg Packing Instruction – Cargo: 965 Packing Instruction - Cargo: 966 or Maximum Net Quantity per Pkg -967 Cargo: 965 Maximum Net Quantity per Pkg -Special Provisions: A88, A99, A154, Cargo: 35kg A164, A183, A201, A206, A213, A331, Special Provisions for 966: A88, A99, A334, A802 A154, A164, A181, A185, A206, A213, ERG: 12FZ A802 Special Provisions for 967: A48, A88, A99, A154, A164, A181, A185, A201, A206, A213, A220 ERG: 12FZ

SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/le Inventory of Existing Chemical Substances Produced or Imported in China (IECSC)	gislation specific for the substance or mixture Not listed. Lithium nickel cobalt aluminum oxides (CAS No.: 131344- 56-4)
	Catalog of Hazardous Chemicals(2015)	Aluminum (CAS No.: 7429-90-5) Diethyl carbonate (CAS No.: 105-58-8) Dimethyl carbonate (CAS No.: 616-38-6) Silicon (CAS No.: 7440-21-3)
	List of Toxic Chemicals Restricted to be Imported/Exported	Not listed.
	Inventory of Prohibited Chemicals	Carbon black (CAS No.: 1333-86-4)
	List of Hazardous Chemicals for Priority Management- SAWS	Not listed.

SECTION 16: OTHER INFORMATION

Acronyms

MAC: Maximum Allowable Concentration PC-TWA: Permissible concentration – Time Weighted Average PC-STEL: Permissible concentration – Short Term Exposure Limit ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods

Disclaimers

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.