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NARADA LITHIUM ION BATTERY SAFETY DATA SHEET

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IDENTITY(As Used on Label and Lis		Note: Blank spaces are not permitted if any item is not applicable or		
Model No: 125570-L3		no information is available, the space must be marked to indicate		
Product Name: Secondary (Rechargeable) 48V Li-ion Battery		that		
system 75000mAh 3600Wh				
Section I				
Manufacturer's Name:		Emergency Telephone Number		
Zhejiang Narada Power Source Co., Ltd.		+86-571- 56975932		
Address(Number , Street, City State, and ZIP Code)		Telephone Number for information		
9/F,Building A,No.50,zijinghua Road,Hangzhou,Zhejiang,China.				
310012		+86-571- 56975932		
		Date of prepared and revision, Dec.2 nd .16		
Section II-Hazardous Ingre	dients /Identity Informat	ion		
Hazardous Components:				
Description:				
None of the ingredients in th	nis product is considered to be ha	azardous by OSHA		
(as defined in the OSHA Hazard Co	mmunication Standard 29 CFR 19	910)		
Chemical Name CAS N	·			
lithium iron phosphate 1205	57-17-9	~18.3		
Carbon 7782	-42-5	~12.8		
PVDF 24937		~0.7		
LiPF6 21324	40-3	~5.3		
Al Metal 7429	-90-5	~20.3		
Cu Metal 7440-	 50-8	~14.5		
Iron 7439-	89-6	~26.0		
PP 9022-8	88-4/ 9003-07-0	~3		
UN Class: Even classified as	lithium ion batteries(UN:	3481),2017 IATA Dangerous Goods regulations		
56th edition Packing Instru	ction 966 Section II appli	ied. The product is handled as		
Non-dangerous Goods by meeting the following requirements.				
Lithium ion cells and batter	ies offered for transport a	are not subject to other additional requirements of		
These Regulations if they meet the requirements in Section II.Lithium batteries identified by the				
Manufacturer as being defe	ective for safety reasons,	or that have been damaged, that have the potential		
of producing a dangerous e	volution of heat, fire or sl	hort circuit are forbidden for transport (e.g. those		
being returned to the manufacturer for safety reasons).				

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Test and Criteria	Part III suk	osection 38.3.					
And they are out of so	cope for Special	Provision A154 and	comply with Spe	cial Provision A	164.(3)		
Section III – Phys	ical / Chemi	ical Characteris	tics				
Boiling Point		Specific Gravity (H ₂ O=1)			N.A.	NI A	
N.A.					N.A.	N.A.	
Vapor Pressure (mm I	Hg)	Melting Point			NA.	NA.	
N.A.							
Vapor Density (AIR=1))	Evaporation Rate(Butyl Acctatc)		N.A.			
N.A.		Evaporation Nate(Buty) Acctate) N.A.					
solubility in Water							
Insolu	ıble						
Appearance and Odor Prismatic Shape, odorless							
Section IV – Fire	· ·	on Hazard Data					
Flash Point (Method L	Jsed)	Flammable Limits	LEL		UEL		
N.A.		N.A.		N.A.	N.A.		
Extinguishing Media							
		Chemical or Foam Ex	ktinguishers				
Special Fire Fighting P							
Unusual Fire and Expl		6					
	•	fire or heater –may					
Do not attempt to disassemble or modify the battery in any way –may cause burns.							
Do not short-circuit battery – may cause burns. Do not use any chargers other than those recommended by Narada-may explode							
		tilose recommende	u by Naraua-Illay	explode			
Section V – Reactivity Data							
This material is stable and non-reactive with most materials Incompatibility (Materials to Avoid)							
Incompatibility (Materials to Avoid)							
Hazardous Decompos	sition or Byprodi	ucts					
N.A							
Hazardous	May Occur		Conditions to A	void Heating, ,	mechanical and electrical abuse		
Polymerization	M/III Niat Ossuu	- V					
	Will Not Occur	r X					
Section VI – Heal	lth Hazard D	Note:					
Route(s) of Entry.	Route(s) of Entry: Inhalation Yes Skin Yes						
		Skin Yes Ingestion Yes					
Health Hazard (Acute			ation These chem	icals are contai	ined in a sealed coat. Risk of expo	osure occurs only	
		_			when the gas release vent work	-	
					yes and mucous membranes and		
	,				,		

avoided.



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	MAINADA LITTUM ION L	DATTERT SALETT DATA SHEET			
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Carcinogenicity	<i>r</i> :				
NTP: No	o IARC Monograph: No OSHA Regulated: No				
Medical Condit	ions Generally Aggravated by Exposure:				
An acute exp	oosure will not generally aggravate any medical co	ndition			
This product is not expected to cause acute or chronic toxicity or skin/eye irritating					
Section VII-	First Aid Measures				
First Aid Proced	dures				
Inhalation- Ren	nove from exposure and move to fresh air immedi	ately. Use oxygen if available			
Ingestion-	Not toxic per tests with laboratory animals(rats)				
Skin contact- Remove contaminated cloths and rinse skin with plenty of water or shower for 15 minutes. If irritation persists, get					
medical aid					
Eye contact- Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists,					
get medical aid					
Section VIII	-Accidental Release or Spillage				
Steps to Be Tak	ten in Case Material is Released or Spilled				
Batteries t	hat are leakage should be handled with rubber glo	oves.			
Pick up an	d place in appropriate container				
Section IX –	Handling and Storage				
Safe handling a	dvice				
Batte	ries should be handled and stored carefully to avo	oid short circuits			
Speci	fic safe handling advice: Never throw out cells in a	a fire or expose to high temperatures. Do not soak cells in water and			
seaw	ater. Do not expose to strong oxidizers. Do not giv	re a strong mechanical shock or throw down. Never			
Disassemble, modify or deform. Do not connect the positive terminal to the negative terminal with electrically					
Conductive material. In the case of charging, use only dedicated charger.					
storage advice	:				
Storage conditions: Avoid direct sunlight, high temperature, high humidity, Store in cool place.					
Incompatible products: Conductive materials, water, seawater, strong oxidizers and strong acids packing material.					
Section X –	Exposure Controls / Person Protection				
Occupational Exposure Limits: LTEP STEP					
N.A.		N.A.			
Respiratory Pro	otection (Specify Type)				
	Not necessary under conditions of	normal use			
Ventilation	Local Exhausts				
	Not necessary under conditions of normal	Special			
	use	N.A.			
	Mechanical (General)	Other			
	Not necessary under conditions of normal	N.A.			
	1100				



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NARADA LITHIUM ION BATTERY SAFETY DATA SHEET Document Number: Narada-073 page 4 of 5 **Protective Gloves Eye Protection** Not necessary under conditions of Not necessary under conditions of normal use normal use Other Protective Clothing or Equipment Not necessary under conditions of normal use Work / Hygienic Practices N.A. **Section XI- Ecological Information** When promptly used or disposed the batter does not present environmental hazard When disposed, keep away from water, rain and snow Section XII – Disposal Method This product may be disposed in a municipal landfill Section XIII – Transportation Information • Even classified as lithium ion batteries (UN3480), 2017 IATA Dangerous Goods Regulations 56th edition Packing Instruction 966 Section II applied. The product is handled as Non-Dangerous Good by meeting the following requirements.(1) · During the transportation of a large amount of batteries by ship, trailer or railway, do not leave them in the places of high temperatures And do not allow them be exposed to condensation. • During the transportation do not allow packages to be fallen down or damaged. · Lithium ion batteries identified by manufacturer as being defective for safety reasons, or that have been damaged, that have the potential of producing a dangerous evolution of heat, fire or short circuit are forbidden for transport (e.g. those being returned to the Manufacturer for safety reasons). · Except when installed in equipment, for air shipment that contain one or more cells or batteries, they are necessary to meet the Following items. 1. Each consignment must be accompanied with a document such as air waybill with an indication that: The package contains lithium ion cells or batteries. • The package must be handled with care and that a flammability hazard exists if the package is damaged; · Special procedures should be followed in the event the package is damaged, to include inspection and repacking if necessary; And the telephone number for additional information. 2. Each package must be labeled with a lithium battery handling label. • the width 120mm ,length 110mm sized lithium battery handling label must be labeled onto the side of a package without bending it. 3. Each package must be capable of withstanding a 1.2m drop test in any orientation ·Damage to cells or batteries contained therein; ·Shifting of the contents so as to allow battery to battery to battery (or cell to cell)contact; ·Releaser of contents. 4. Quantity per package shall not exceed 100kg.

The rechargeable Lithium-Ion battery pack as stated in Appendix made in compliance to the requirement stated in the latest edition of

5. Each package containing more than four cells or more than two batteries installed in equipment must be complied with above

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the IATA Dangerous Goods Regulations Packing Instruction 965 Part 1 such that they can be transported as a NOT RESTRICTED

(non-hazardous/non-dangerous)goods; However, if those lithium-ion battery packs are pack with or contained in an equipment, then

it is the Responsibility of the shipper to ensure that the consignment are packed in compliance to the latest edition of the IATA

Dangerous Goods.

Regulations Section II of either Packing Instruction 966 or 967 in order for that consignment to be declared as NOT RESTRICTED

(Non-hazardous/non-Dangerous).

Section XVI – Regulatory Information

Note: This regulatory information included here should not necessarily all inclusive. None of the ingredients in this product are subjected to be reporting requirements of the CERCLA, the Clean Air Act and Clean Water Act (US). This product is not formulated with, nor do the manufacturing or formulation processes utilize an Class I or II Ozone depleting substances

Section XV– Other Information

The recommendations and information contained in this MSDS have been compiled from Sources believed to represent the most current information available when the MSDS was Prepared. However, the manufacturer/distributor of this product provides any warranty. Guaranty or representation as to the correctness or sufficiency of this information. If this product is to be used in large amounts and /or an unusual manner, the user is obliged to determine what safety measures are appropriate, including the applicable and relevant workplace and environmental regulations pertaining to handling, use and disposal.

Section XVI – Measures for fire extinction

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

 $\label{lem:contained} \mbox{ Fire fighters should wear self-contained breathing apparatus.}$