

Material Safety Data Sheet

Lithium Ion

The information and recommendations below are believed to be accurate at the date of preparation. Ascent Battery makes no warranty of merchantability or any other warranty, express or implied, with respect to such information and we assume no liability resulting from its use. This MSDS sheet provides guidelines for safe use and handling of the product. It does not and cannot advise all possible situations. Your specific use of this product should be evaluated to determine if additional precautions must be taken.

Distributed By:	Ascent Battery Supply, LLC	Emergency Number	INFOTRAC (800) 535-5053
		Overseas	
Address	925 Walnut Ridge Drive Hartland, Wisconsin 53029	Emergency Number	INFOTRAC (800) 535-5053
Date Prepared	1/23/03		

SECTION 1 – IDENTITY

Product Name

Lithium Ion Battery

Common

Li-lon

Synonyms

DOT Description Dry Battery

Chemical Name

Lithium Ion; Secondary Battery

Battery

SECTION 2 – HAZARDOUS INGREDIENTS					
Chemical Name	CAS No.	Percentage %			
Lithium Cobalt Oxide	12190-79-3	25 – 30			
Carbon	7440-44-0	10 – 30			
Polymer	N/A	1			
Copper	7440-50-8	1			
Aluminum	7429-90-5	1			
Organic Carbonates	N/A	5 – 20			
Lithium Salts	N/A	1 – 6			

SECTION 3 - PHYS	SICAL AND CHEMICA	L CHARACTERISTICS		
Boiling Point	NA	Melting Point	NA	
Vapor Pressure	NA	Vapor Density	NA	
Specific Gravity	NA	Percent Volatile By Volume	NA	
Solubility in Water	NA	Reactivity in Water	NA	
Appearance and Odor	Geo-metric, solid object	Evaporation Rate	NA	
Flash Point	NA	Flammable Limits in Air % by Volume	NA	
Extinguisher Media	Use Water, foam or dry powder	Auto-Ignition Temperature	NA	
Special Fire Fighting Procedures	Wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition products.			
Unusual Fire and Explosion Hazards	Cells may rupture when exp flammable or corrosive mate	osed to excessive heat. This could	I result in the release of	

	PHYSICAL	TALARU	S		
Stable or Unstable	Stable	Condition	s to Avoid	Electrical shorting the	cell.
Incompatibility	NA				
(Materials to Avoid)					
Hazardous	NA				
Decomposition					
Products					
Hazardous	Will Not (Occur			
Polymerization					
SECTION 5-H	HEALTH H	AZARDS			
Threshold Limit Value	NA				
Signs and Sympton	s None (In	fire or rupture	situation se	e section 2 and section	1.)
of Exposure		•			•
Medical Conditions	Chemica	s may cause	burns to skil	n, eves, gastrointestinal t	ract and mucous membranes.
Generally Caused by		solvant has sl	ant toxicity	and can irritate skin and	eyes. Lithium salt is irritating to skin
Exposure		mucous mer			-
Routes of Entry		s, Swallowing			
Emergency and Firs	t Nickel Mo	etal Hydride (Chemicals		
Aid Procedures for					
1. Inhalation				seek medical attention	
2. Eyes and Skin					ewarm water for a minimum of 15 skin with soap and water.
4. Ingestion					tional Battery Ingestion Hotline
	(202-625	-3333) 24 hou	irs a day, for	procedures treating inge	estion of chemicals. Do not induce
	vomiting.		ving milk an		
SECTION 6 - S	SPECIAL P	ROTECT	ION INFO	ORMATION	
Respiratory	NA NA				
Protection	3 W				
Ventilation	NA	Local	NA	Mechanical	NA
Ventuation			1.47.		
	IVA				
Gloves Wear ale		Exhaust	Blaccae	(General)	
	oves if cell		Glasses	(General) Always wear safety gl	asses when working with batteries ar
ruptures	oves if cell , is corroded or	Exhaust	Glasses	(General)	
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