Material Safety Data Sheet

Tadiran High Temperature Lithium Battery 3.9V Identity (Trade Name As Used On Label) Tadiran Ltd. Israel, Tadiran Electronics Manufacturer MSDS Number 2 Seaview Blvd. Port Washington NY 11050 CAS Number January 1, 1999 Date Prepared (516) 621-4980 Prepared By Phone Number (for information) (817) 430-1242 Note: Blank spaces are not permitted, if any item is not applicable, or no information is available, the space must be marked to indicate **Emergency Phone Number** Telex* SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS - Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	%*	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
Thionyl Chloride (SOCL2)	5	2 ppm	2 ppm	
Lithium (Li)	4			
Carbon (C)	4			
Aluminum Chloride (AlCl3)	5			
Lithium Chloride (LiCl)	1			
Sulphuryl Chloride (SO ₂ Cl ₂)	39			·
Lithium Bromide (LiBr)	0.4			
Glass Separator	0.6			
Non-Hazardous Ingredients	41			
TOTAL	100			

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point	N/A	Specific Gravity N/A (H₂O = 1)		
Vapor Pressure (mm Hg and Temperature)	N/A	Melting N/A point		
Vapor Density (Air = 1)	N/A	Evaporation Rate N/A		
Solubility in Water	N/A	Water Reactive The battery ingredients can form		
_		H ₂ SO ₄ , HCl, SO ₂ and H ₂ , upon contact		
Appearance and Odor	N/A	with water (only when forced open)		

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used	N/A	Auto-Ignition Temperature	N/A	Flammability Limits in Air % by Volume	N/A	LEL	N/A	UEL	N/A
Extinguisher Media	LIT-X-	Extinguisher (tra	demark	c for a graphite-b	ased po	wder))		
Special Fire Fighting Procedures		, ,		n dioxide, soda-a breathing appara		_		~	
				-					
Unusual Fire and Explosion Hazards	Do not expose to temperatures above 150°C, incinerate, puncture, crush, recharge,								
	overd	ischarge or short	circuitin	g					

^{*}Optional

SECTION 4 - REACTIVITY HAZARD DATA					
STABILITY Conditions Fire, heat over 150°	C, force opening, recharging, incinerating, expose				
	To Avoid sometime or him to receive and him to receive and the received and an arrival and arrival arrival and arrival and arrival arrival and arrival arrival arrival and arrival ar				
Incompatability (Materials to Avoid) Expose internal contents to water					
<u> </u>	oride (HCl), Hydrogen (H ₂), Chlorine (Cl ₂), Bromine (BR ₂) and				
Decomposition Products Sulphuric Acid (H ₂ SO ₄)					
HAZARDOUS POLYMERIZATION ☐ May Occur X Will Not Occur Conditions To Avoid N/A					
SECTION 5 - HEALTH HAZARD DATA					
PRIMARY ROUTES X Inhalation X Ingestion OF ENTRY X Skin Absorption ☐Not Hazardous	CARCINOGEN ☐ NTP ☐ OSHA LISTED IN ☐ IARC Monograph				
HEALTH HAZARDS Acute When exposed internal control	ent- vapors very irritating to eyes, mucous membrane and skin.				
	emptoms of nonfibrotic lung injury and membrane irritation.				
Signs and Symptoms of Exposure When exposed to internal continuous irritation.	ents: distinct order, coughing, acidic taste, eye and				
Medical Conditions Lungs injuries, Asthma	, other respiratory disorders, Eczema, skin allergies.				
Generally Aggravated by Exposure EMERGENCY FIRST AID PROCEDURES - Seek medical assista	unce for further treatment, observation and support if necessary.				
	ntent, flush with plenty of water for at least 15				
•	seek immediate medical treatment				
	ntent, flush with plenty of water. If burns				
developed seek medical treat	· ·				
Inhalation Move out of the contaminate	d area to fresh air. If breathing is difficult,				
administer oxygen and seek i	mmediate medical treatment.				
Ingestion N/A					
SECTION 6 - CONTROL AND PROTECTIVE	MEASURES				
Respiratory Protection (Specify Type) Acid Gas Filter Mask					
Protective Gloves Butyl Rubber Gloves	Eye Protection Chemical Worker Safety Glasses				
VENTILATION X Local Exhaust	☐ Medical (general) ☐ Special				
TO BE USED					
Other Protective Chemical Laboratory Garments Clothing and Equipment					
Hygienic Work N/A Practices					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES					
Steps to be Taken if Material Is Spilled Or Released Ventilate the contaminated area. Do not breath vapors or touch					
cell content with bare hands.					
110011020	ose of with special equipment or use professional				
battery disposal service by Recovery & Reclamation Inc. (915) 4473-272 or B.D.T. (716) 6346-794					
Precautions to be Taken in Handling and Storage The following is recommended:"Warning:Fire, explosion and severe					
hazard. Do not recharge, disassemble, heat above 100°C, incinerate or expose contents to water"					
Other Precautions and/or Special Hazards Do not store batteries for long periods in high humidity, do not					
short circuit, recharge, overdischarge, expose to temperature above 150°C, crush or puncture.					
NFPA Rating* Health Flammabillity_ Reactivity_ Special Rating* Health Flammabillity_ Reactivity_ Personal Protection					