Emergency Response Instructions:
Lithium Batteries Contained in Equipment, UN3091
Electrochem Hermetically-Sealed Lithium Sulfuryl Chloride Batteries (CSC cells) and Sealed Lithium Bromine Chloride in Thionyl Chloride Batteries (BCX cells)

Emergency phone: 3E call 001-760-602-8703 or inside US call 1-800-451-8346

HAZARDOUS INGREDIENTS - Flammable solid, Lithium Metal, water reactive
CSC: Lithium (Li), Sulfuryl Chloride (SOCl₂), Chlorine (Cl₂), Carbon (C)
BCX: Lithium (Li), Thionyl Chloride(SOCl₂), Chlorine (Cl₂), Bromine (Br₂), Carbon (C)

IMMEDIATE HEALTH HAZARDS
None, unless battery ruptures. In the event of exposure to internal contents, corrosive fumes will be very irritating to skin, eyes, and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: In the event of exposure to internal contents, eczema, skin allergies, lung injuries, asthma, and other respiratory disorders may occur.

FIRE AND EXPLOSION HAZARD DATA
USE LITH-X OR OTHER METAL (CLASS D) FIRE EXTINGUISHER POWDER.
SPECIAL FIRE FIGHTING PROCEDURES: Do not use water, sand, carbon dioxide, or soda ash extinguisher. Wear protective breathing apparatus and protective garments.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not short circuit, recharge, overdischarge, puncture, incinerate, crush or expose to temperature above the temperature rating of the battery.

WATER REACTIVE:
If CSC cells forced open, the ingredients hydrolyze to form SO₂, HCL, H₂SO₂, and H₂ upon contact with water. BCX cells hydrolyze to form SO₂, HCL, LiOH, and H₂ upon contact with water.
ODOR: If leaking, sharp, pungent order

EMERGENCY FIRST AID PROCEDURES:
Eye Flush with running water for at least 15 minutes. Contact: Hold eyelids apart. Seek immediate medical treatment. Skin Rinse with large amounts of running water. If burns develop Contact: seek medical treatment. Inhalation: Remove to fresh air. If breathing is difficult, administer oxygen and seek medical treatment. Ingestion: Seek immediate medical treatment.

PRECAUTIONS FOR SAFE HANDLING AND USE
STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Do not breathe vapors or touch liquid with bare hands.
WASTE DISPOSAL METHOD: Neutralize spill with soda lime, seal leaking battery and soda lime in plastic bag and dispose of as hazardous waste.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not short circuit or expose to temperatures above the temperature rating of the battery. Do not recharge, overdischarge, puncture, or crush.

CONTROL MEASURES
RESPIRATORY PROTECTION: As in any fire or chemical spill situation, use self contained breathing apparatus if a cell vent or fire occurs.
EYE PROTECTION: Safety glasses are recommended during handling of any lithium cell or battery.
PROTECTIVE GLOVES: In the event of leakage, wear gloves.
OTHER PROTECTIVE CLOTHING: In the event of leakage, wear chemical apron.
VENTILATION: LOCAL EXHAUST: Recommended in a vent or leak situation.

REACTIVITY DATA
INCOMPATIBILITY: Do not expose internal components to water
HAZARDOUS DECOMPOSITION PRODUCTS: SO₂, HCL, H₂SO₂, LiOH(BCX), and H₂
MSDS No.- TLP-101, 3.9V based PP (Revision -A)

MATERIAL SAFETY DATA SHEET

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name- Tadiran Batteries Ltd.
Address- 2 Seaview Blvd. Port Washington NY 11050, (www.tadiranbat.com)
Emergency Telephone No – CHEMTREC: 1-800-424-9300
Tel. for information: 1-516-621-4980
Tel. for information 972-8-944-4503

Chemical Systems- a PulsePlus battery that includes Lithium/ Sulfuryl Chloride cells and Hybrid Layer Capacitor (HLC) cells. Both types are hermetically sealed.

Products Name: Primary (non-rechargeable) lithium metal battery models: covers all the TLP models followed with 5 digit number starting with 8XXXX, and may include additional slushes and letters and digits (8XXXX/X/XXXXX).

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>%</th>
<th>ACGIH (TLV)</th>
<th>OHSA (PEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lithium Metal (Li)</td>
<td>7439-93-2</td>
<td>&lt;5%</td>
<td>Not Established</td>
<td>None</td>
</tr>
<tr>
<td>Sulfuryl Chloride (SO2Cl2)</td>
<td>7791-25-5</td>
<td>20-45%</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Thionyl Chloride (SOCl2)</td>
<td>7719-09-7</td>
<td>&lt;5%</td>
<td>1 ppm (5 mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Graphite and Carbon (C)</td>
<td>7782-42-5</td>
<td>&lt;10%</td>
<td>3.5 mg/m³ TWA for carbon</td>
<td>2.0 mg/m³ as respirable fraction (dust)</td>
</tr>
<tr>
<td>Aluminum Chloride (AlCl3)</td>
<td>7446-70-0</td>
<td>&lt;5%</td>
<td>2 mg/m³ (Al salt, soluble)</td>
<td></td>
</tr>
<tr>
<td>Lithium Chloride (LiCl)</td>
<td>7447-41-8</td>
<td>&lt;2%</td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Lithium Cobalt- Nickel Aluminum Oxide</td>
<td>193214-24-3</td>
<td>&lt;4%</td>
<td>- 0.02 mg/m³ as Co dust and fumes.</td>
<td>- 0.1mg/m³ as Ni</td>
</tr>
<tr>
<td>Lithium Hexafluoro-Phosphate (LiPF6)</td>
<td>21324-40-3</td>
<td>&lt;1%</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>Ethylene Carbonate</td>
<td>96-49-1</td>
<td>&lt;2%</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>Dimethyl Carbonate</td>
<td>616-38-6</td>
<td>&lt;2%</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>Diethyl Carbonate</td>
<td>105-58-8</td>
<td>&lt;2%</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>PVDF</td>
<td>24937-79-9</td>
<td>&lt;1%</td>
<td>None Established</td>
<td>None Established</td>
</tr>
<tr>
<td>Copper (Cu)</td>
<td>7440-50-8</td>
<td>&lt;4%</td>
<td>0.2 mg/m³, fume</td>
<td>0.1 mg/m³, fume.</td>
</tr>
<tr>
<td>Aluminum (Al)</td>
<td>7429-50-5</td>
<td>&lt;2%</td>
<td>1.0 mg/m³, dust and mist</td>
<td>1.0 mg/m³, dust and mist</td>
</tr>
<tr>
<td>May be potted in Epoxy, casting resin and hardener</td>
<td>&lt;30%</td>
<td>None for epoxy resin or hardener components</td>
<td>None for epoxy resin or hardener components</td>
<td></td>
</tr>
<tr>
<td>Steel, nickel and inert components</td>
<td>Balance</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH: American Council of Governmental Industrial Hygienists.
TLV- Threshold Limit Value is personal exposure limits determined by ACGIH.

IMPORTANT NOTE: The above levels are not anticipated under normal consumer use conditions. Thus, the batteries should not be opened or exposed to water and heat.

P. O. Box 1, Kiryat Ekron, Israel 70500, Tel- (972-8) 9 444 560, Fax- (972-8) 9 413 023
TLP-101, 3.9V, PP based, revision A 1/8 Revised- 7/12/2009
SECTION 3 - HAZARD IDENTIFICATION

The battery described in this MSDS includes hermetically sealed cells, which are not hazardous when used according to the recommendations of the manufacturer and provide that the integrity the cells is maintained.

Emergency overview: Do not short circuit, crush, immerse in water, charge, force discharge (reverse voltage of the component cells) or expose to temperature above the declared operation temperature range of the product.

Potential health effects: Under normal conditions of use, the materials contained in the cells are not exposed to the outside, provided the battery integrity is maintained and seal remained intact. The risk of exposure to the internal ingredients occurs only in case of physical (mechanical) thermal or electrical abuses.

Acute exposure- electrolyte may irritate skin and eyes

SECTION 4 – FIRST AID MEASURES

General introduction- the chemical ingredients are contained in a hermetically sealed can. Thus, adequate hazard warning is included on the battery package. Practically, there is no exposure to these ingredients unless cell leaks, or opened when exposed to high temperature, opened mechanically or electrically abused.

On contact with eyes – is not anticipated under normal use. If cell within the battery leaks and material contacts eyes, flush with copious amounts of tepid water for at least 15 minutes (remove contact lenses if easily possible). Get medical attention at once.

On contact with skin – not anticipated under normal use. If cell within battery leaks and material contacts the skin, flush immediately with copious amounts of tepid water and wash affected area with soap and water. In a severe case, obtain medical attention.

If inhaled – is not anticipated under normal use. If cell within the battery leaks, remove to fresh air. Avoid inhaling any vented gases. If irritation persists, obtain medical attention.

On ingestion – is not anticipated under use. If cell is removed from the battery and leaks, rinse mouth and surrounding area with tepid water for at least 15 minutes. Give plenty of water to drink. Obtain medical attention.

Further Treatment- All cases of eye contamination, persistent skin irritation, breathing of vapors and swallowed internal ingredients, should be seen by a Doctor.

SECTION 5- FIRE FIGHTING MEASURES

FLASH POINT: NA LOWER (LEL): NA
FLAMMABLE LIMIT IN AIR: NA UPPER (LEL): NA

EXTINGUISHING MEDIA:
1. Lith- X (Class D extinguishing media) is the only effective on fires involving a few lithium batteries. If the batteries are directly involved in a fire DO NOT USE: WATER, SAND, CO₂, HALON, DRY POWDER OR SODA ASH EXTINGUISHER.
2. If fire is in adjacent area and batteries are either packed in their original containers or unpacked, the fire can be fought based on fueling material, e.g., paper and plastic products. In these cases the use of copious amounts of cold water is effective extinguishing media. Storage area may employ sprinkler system with cold water.

**FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus to avoid breathing of irritant fumes (NIOSH approved SCBA & full protective equipment). Wear protective clothing to prevent body contact with electrolyte solution. Fire may be fought, but only from safe fire-fighting distance. Evacuate all persons from immediate area of fire. DO NOT re-enter the area until it has been thoroughly ventilated (purged) of the fire vapors and extinguishing agent.

**UNUSUAL EXPLOSION AND FIRE EXPLOSION:** Battery may explode when subject to: excessive heat (above 100°C), recharged, over-discharged (discharge below 0V), punctured and crushed. Burning cells emits acid smoke, irritating fume and toxic fumes of chlorine (Cl₂), hydrogen chloride (HCl), Sulfuric acid (H₂SO₄), sulfur dioxide (SO₂) oxides of carbon and nitrogen; hydrofluoric acid, ammonia and other toxic by-products (e.g., lithium oxide, aluminum, aluminum oxide, cobalt oxide, copper, copper oxide, phosphorus pentfluoride, etc.) can be formed. Damaged or opened cells can result in rapid heating and release of flammable vapors.

**SECTION 6 - SPILL OR LEAKAGE PROCEDURES**

**PROCEDURES TO CONTAIN AND CLEAN UP LEAKS OR SPILLS:** The material contained within the battery would only be released under abusive conditions.

**NEUTRALIZING AGENT:** In the event of battery rapture and leakage: contain the spill while wearing proper protective clothing and ventilate the area. Then, cover with sodium carbonate (Na₂CO₃) or 1:1 mixture of soda ash and slaked lime. Keep away from water, rain, and snow. Placed in approved container (after cooling if necessary) and disposed according to the local regulations.

**WASTE DISPOSAL METHOD:** Product decomposed by water must be neutralized. It may be added to waste water in sufficiently diluted form.

**SECTION 7 - HANDLING AND STORAGE**

**Charging**—the TLP batteries are primary and, as such, are **not** designed to be recharged from external power source. Connecting to any other power supply can result in fire or explosion.

**Disassembly**—the batteries should never be disassembled, or mechanically abused.

Should a cell unintentionally crushed or opened, thus releasing its content, rubber gloves should be used to handle all cell components. The inhalation of any vapor that may be emitted should be avoided. In event of inhalation, eye and skin exposure to the electrolyte, refer to Section 4 “First Aid Measures”.

**Short Circuiting**—as with any battery, short circuit causes heating. In addition, short circuit reduces the life of the cell and can lead to ignition of surrounding materials. Physical contact with the short-circuited battery can cause skin burns.

**Reverse Polarity**—avoid reversing polarity of a cell within battery pack. This can cause the cell to leak or to flame.
Storage—stored preferably in cool (below 30°C), dry and ventilated area, which is subject to little temperature change. Elevated temperatures may result in shortened cell life and degrade performance. Temperatures above 85°C may result in leakage.

Batteries should not be placed near heating equipment, or expose to direct sunlight for long period. It is preferred to keep batteries in original packaging until use and do not jumble them in order to prevent short circuit. Batteries should be stored separately from other materials and in non-combustible well-ventilated and sprinkler-protected structure with sufficient clearance between walls and packages.

Labeling
If the Tadiran label or package warning is not visible, it is important to provide the cell sleeve or device a label stating:

**Warning:** Do not short circuit, charge, puncture, incinerate, crush, immerse in water, force discharge, or expose to temperatures above the temperature range of the battery or battery. Risk of fire and explosion.

Others
The battery should not be immersed in water or disposed of in fire, exposed to high temperature, deforming the battery by applying a pressure can lead to disassembly followed by electrolyte leakage.

Follow manufacturer recommendations regarding maximum recommended current and operating temperature range. The batteries should not be charged, opened or incinerate, since they may leak or rupture and release to the environment the ingredients that they contained.

SECTION 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

ENGINEERING CONTROLS: Handling of undamaged battery requires no engineering controls. The battery should be kept away from heat and open flame and stored in a cool dry place. When a cell within a battery is being damaged or in the event of fire than:

OCCUPATIONAL EXPOSURE STANDARD: The occupational exposure limits according to ACGIH and OSHA are given in Section 2, “Composition and Information on Ingredients” along with CAS number and their percentage range. For all ingredients no available Biological Exposure Indices (BEI) exists.

RESPIRATORY PROTECTION: None necessary under normal use. In case electrolyte leakage from cells, protect hand with chemical resistant rubber gloves. If cells are burning, leave the area immediately. In all fire situations, use NIOSH approved Acid Gas Filter Mask or Self-Contained Breathing Apparatus.

VENTILATION: Not necessary under normal use. In case of abuse, use adequate mechanical ventilation (local exhaust) for cell that vents gas or fumes.

PROTECTIVE GLOVES: None necessary under normal use. In case of electrolyte spill from the cell, use PVC or Nitrile gloves of 15 mils (0.015 inch) or thicker.

EYE PROTECTION: None required under normal conditions. Use safety glasses with side shields if handling a leaking or ruptured cell or battery (ANSI approved chemical worker safety goggles or face).
SKIN AND BODY PROTECTION: Not necessary under normal use. Use chemical apron and protective gloves working in case of handling of a ruptured or leaking cell or battery.

OTHER PROTECTIVE EQUIPMENT: In case needed, chemical resistance clothing is recommended along with eye wash station and safety shower should be available meeting ANSI design criteria.

WORK HYGIENIC PRACTICES: Use good chemical hygiene practice.

SECTION 9- PHYSICAL DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT (760 mm Hg)</td>
<td>NA, unless individual components exposed</td>
</tr>
<tr>
<td>MELTING AND BOILING POINTS</td>
<td>Not applicable</td>
</tr>
<tr>
<td>VAPOR PRESSURE (mm Hg, 25°C)</td>
<td>NA, unless individual components exposed</td>
</tr>
<tr>
<td>VAPOR DENSITY (air=1)</td>
<td>NA, unless individual components exposed</td>
</tr>
<tr>
<td>DENSITY (gr/cc)</td>
<td>&gt; 1.5 gr/cc</td>
</tr>
<tr>
<td>VOLATILE BY VOLUME (%)</td>
<td>NA</td>
</tr>
<tr>
<td>EVAPORATION RATE (butyl acetate=1)</td>
<td>NA, unless individual components exposed</td>
</tr>
<tr>
<td>PHYSICAL STATE</td>
<td>Solid</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (% by weight)</td>
<td>NA, unless individual components exposed</td>
</tr>
<tr>
<td>PH</td>
<td>NA, unless individual components exposed</td>
</tr>
<tr>
<td>APPEARANCE</td>
<td>Geometric Solid Object</td>
</tr>
<tr>
<td>ODOR</td>
<td>No odor. If leaking, gives off pungent odor</td>
</tr>
<tr>
<td>FLAMMABILITY</td>
<td>Not applicable</td>
</tr>
<tr>
<td>IGNITION TEMPERATURE</td>
<td>Not applicable</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Not applicable</td>
</tr>
<tr>
<td>EXPLOSION PROPERTIES</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

SECTION 10- STABILITY AND REACTIVITY

STABLE OR NOT STABLE: Battery is stable under normal use and storage as described in Section 7.

INCOMPATIBILITY (MATERIAL TO AVOID): None during normal operation conditions. Avoid exposure to heat, open flame and corrosives.

HAZARDOUS DECOMPOSITION PRODUCTS:
1. Reaction of lithium with water: Hydrogen (H₂), Lithium hydroxide (LiOH).
2. Thermal decomposition over 150°C: Sulfur oxides, (SO₂, SO₃), Sulfur chlorides (SCl₂, S₂Cl₂), Chlorine (Cl₂), Lithium oxide (Li₂O), oxides of carbon and nitrogen (mainly CO and other VOC’s), phosphorous, and hydrofluoric acid and other toxic by-products.
3. Electrolyte with water: Hydrogen Chloride (HCl) sulfuric acid (H₂SO₄) and SO₂ and Hydrofluoric acid (HF).

DECOMPOSITION TEMPERATURE (°F): NA

HAZARDOUS POLYMERIZATION: May Occur _____ Will Not Occur ___ X___

CONDITIONS TO AVOID: Mechanical abuse such as crushing, piercing and disassembly
Electrical abuse such as short-circuiting, charging, over-
SECTION 11 – TOXICOLOGICAL INFORMATION
Toxicity information for cell ingredients is given in Section 2, “Composition and Information on Ingredients”. This information is generally not applicable to the intact batteries normally used in application. Internal components of the cell are irritants and sensitizes. Exposure to the internal contents can occur only if the cells in the battery are being ruptured.

1. Irritancy- in event of exposure to internal content, corrosive fumes are can result in irritation to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.

2. Sensitization-. no information is available at this time for the cells.

3. Carcinogenicity- no information is available at this time for the cells. Cobalt compounds are listed as possible carcinogen by the International Agency for Research on Cancer (IARC).

4. Teragenocity- no information is available at this time for the cells

5. Reproductive toxicity- no information is available at this time for the cells

6. Acute toxicity- not applicable to intact cell.

MEDICAL CONDITION AGGRAVATED BY EXPOSURE: Preexisting skin dermatitis, asthma and respiratory diseases are generally aggravated by exposure to liquid electrolyte vapors or liquid.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Exposure to leaking electrolyte from ruptured or leaking battery can cause:

**Inhalation**- Burns and irritation of the respiratory system, coughing, wheezing, and shortness of breath.

**Eyes**- Redness, tearing, burns. The electrolyte is corrosive to all ocular tissues.

**Skin**- The electrolyte is corrosive and causes skin irritation and burns.

**Ingestion**- The electrolyte solution causes tissue damage to throat and gastro/respiratory track.

SECTION 12- ECOLOGICAL INFORMATION
1. When properly used or disposed the battery does not present environmental hazard.
2. Cells do not contain mercury, cadmium, or lead.
3. Do not let internal components enter marine environment. Avoid release to waterways, wastewater or ground water since some materials within the cells are bio-accumulative. When properly used and disposed, cells and batteries do not present environmental hazard.

SECTION 13- DISPOSAL CONSIDERATIONS
Waste disposal must be in accordance with the applicable Federal, State and the Local regulations. Disposal of cells and batteries should be performed by permitted, professional disposal company knowledgeable in Federal, State or Local requirements.
of hazardous waste treatment and hazardous waste transportation. The cell should have its terminal insulated in order to prevent short circuit during the transportation to the disposal site.

Incineration should never be performed by battery users.

TLP batteries contain recyclable materials. Recycling options should be considered when disposing of this product, through licensed waste carrier.

RCRA Waste Code- Nonregulated.

SECTION 14- TRANSPORTATION /SHIPPING

Shipping name: Lithium metal cells and batteries, they are considered as Dangerous Goods, e.g., UN-3090 for cells and batteries and UN-3091 for cells or batteries in equipment or with equipment.

Shipping information- the batteries have been successfully passed the tests defined in “UN Manual of Tests and Criteria”, Section 38.3 (the UN tests).

Hazard Classification:

1. Worldwide besides the United State- the batteries are subject to the Dangerous Goods Regulation, e.g., it is defined as Class 9. The batteries or equipment with batteries must be packed in accordance with the Packing Instructions of the applicable code, e.g., IATA/ICAO (P968, P969 and P970), IMO (SP188, SP230 and P903) and ADR (SP188, SP230 and P903).

2. Transportation within, to and from the US- are governed by the US DOT CFR 49, Parts 171, 172, 173 and 175. The batteries cannot be shipped, within, to, and from the US by passenger aircraft. Air shipments of batteries can be done only by cargo aircrafts.

Identification and labeling in compliance with the product drawing should include the battery title, nominal voltage, lot number and warning.

SECTION 15- REGULATORY INFORMATION

1. All the cells and batteries are defined as “articles” and thus are exempt from the requirements of the “Hazard Communication Standard”.

2. NFPA rating- Lithium batteries are not included in the NFPA material list. Below is the NFPA rating for lithium metal. Lithium metal is an internal component, enclosed by hermetically sealed metallic can. Under normal application is not exposed.

3. The internal component (Thionyl chloride) is hazardous under the criteria of the

P. O. Box 1, Kiryat Ekron, Israel 70500, Tel- (972-8) 9 444 560, Fax- (972-8) 9 413 023

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4. ACGIH and OSHA- see exposure limits of the internal ingredients of the battery in Section 2.

5. The transport of the lithium batteries is regulated by the United Nations, “Model Regulations on Transport of Dangerous Goods”.

6. Within the US the Lithium batteries and cells are subject to shipping requirements under 49 CFR 173.185.

7. Shipping of lithium batteries in aircrafts are regulated by the International Civil Aviation Organization (ICAO) and the International Air Transport Association (IATA) requirements in UN 3090 or UN 3091.

8. Shipping of lithium batteries on sea are regulated the International Maritime Dangerous Goods (IMDG) requirements of UN 3090 or UN 3091.

SECTION 16- OTHER INFORMATION/DISCLAIMER

The information and the recommendations set forth are made in good faith and believed to be accurate at the date of preparation. The present file refers to normal use of the product in question. Tadiran Batteries makes no warranty expressed or implied.