



NARADA LITHIUM ION BATTERY SAFETY DATA SHEET

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| Document Number: Narada-064 | | Revision:01 | | page 3 of 5 | |
| Carcinogenicity: NTP: No IARC Monograph: No OSHA Regulated: No | | | | | |
| Medical Conditions Generally Aggravated by Exposure: An acute exposure will not generally aggravate any medical condition | | | | | |
| This product is not expected to cause acute or chronic toxicity or skin/eye irritating | | | | | |
| Section VII-First Aid Measures | | | | | |
| First Aid Procedures | | | | | |
| Inhalation- Remove from exposure and move to fresh air immediately. 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 Taken in Case Material is Released or Spilled | | | | | |
| Batteries that are leakage should be handled with rubber gloves. | | | | | |
| Pick up and place in appropriate container | | | | | |
| Section IX – Handling and Storage | | | | | |
| Safe handling advice | | | | | |
| Batteries should be handled and stored carefully to avoid short circuits | | | | | |
| Specific safe handling advice: Never throw out cells in a fire or expose to high temperatures. Do not soak cells in water and seawater. Do not expose to strong oxidizers. Do not give 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 Protection (Specify Type) | | | | | |
| Not necessary under conditions of normal use | | | | | |
| Ventilation | Local Exhausts | | Special | | |
| | Not necessary under conditions of normal use | | | | N.A. |
| | Mechanical (General) | | Other | | |
| | Not necessary under conditions of normal use | | | | N.A. |



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| Protective Gloves Not necessary under conditions of normal use | | Eye Protection Not necessary under conditions of 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), 2014 IATA Dangerous Goods Regulations 55th edition Packing Instruction 965 | | | | | |
| 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 10kg. | | | | | |
| 5. Each package containing more than four cells or more than two batteries installed in equipment must be complied with above 1 and 2. | | | | | |
| The rechargeable Lithium-Ion battery pack as stated in Appendix made in compliance to the requirement stated in the latest edition of | | | | | |



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| <p>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.</p> | | |
| <p>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).</p> | | |
| <p>Section XVI – Regulatory Information</p> | | |
| <p>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</p> | | |
| <p>Section XV– Other Information</p> | | |
| <p>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.</p> | | |
| <p>Section XVI – Measures for fire extinction</p> | | |
| <p>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.</p> <p>Fire fighters should wear self-contained breathing apparatus.</p> | | |