



Product Safety Information

NSR Product Name

AIS-SART

NSR part. No

NAS-1000

Manufacturer:

NEW SUNRISE Co., Ltd.

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Hazards identification

The important hazards and adverse effects of the chemical product	No information available
Chemical product – specific hazards	No information available
Outline of an anticipated emergency	Chemical contents are seal in metal can. Therefore, risk of exposure never occurs unless battery is mechanically r electrically abused. Risk of explosion by fire is anticipated if batteries are dispose of in fire or heated above 100 degree Celsius. Stacking or jumbling of batteries may cause external short circuits, heat generation, in some case, allowing fire or explosion.

Note: our battery is not classified in accordance with the GHS classification.

Composition/Information on Ingredient/Material:

Material or Ingredients	CAS. No.
Lithium metal	7439-93-2
Thionyl Chloride electrolyte	7719-09-7
Carbon	1333-86-4

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Handling and Storage

Handling	<p>Do not charge, short-circuit, disassemble, deform, heat above 100 °C or incinerate.</p> <p>Do not pile up or mingle battery with each other.</p> <p>Do not place battery on metal case, metal plate or antistatic material.</p> <p>In case of multi cell application, replace all batteries to new at once when replacing used batteries.</p>
Storage	<p>Be sure to store batteries in well-ventilated, dry and cool conditions.</p> <p>Keep away from water, rain, snow, frost or dew condensation.</p> <p>Do not store batteries near source of heat or nozzle of hot air.</p> <p>Do not store batteries in direct sunshine.</p> <p>Take care not to get wet packing by dew condensation when packing is removed from cold to warm and humid condition.</p> <p>Enough number of fire fighting apparatuses should be installed in warehouse.</p>

Disposal Considerations

Dispose of batteries in accordance with applicable federal, state and local regulations.

For safety precaution, battery should be insulated in proper manner; covering both terminals by tape, wrapping of battery in insulative bag or packing battery in original package is recommended in order to prevent ignition due to short-circuit.

Transport Information

Lithium metal cells and batteries are classified as Class 9 Dangerous Goods in the United Nations Recommendation, and given UN numbers as shown in the below table. In case of transport of lithium metal cells and batteries, compliance with all the relevant UN regulations in addition to the requirements of United Nations recommendation is required.

Our battery and its shipping package complies with the requirement of UN Manual of Test and Criteria, Part III, subsection 38.3 as well as the requirements described below, so it is permitted to transport.

<Air Transport >

For transported air, Lithium-metal Cells/Batteries shipped as “Fully Regulated” Cargo: Must comply with Section IA of PI968-PI970 accordingly; For cells, the lithium content should be more than 1g; for batteries, the lithium content should be more than 2g. Lithium content must be marked on the outside of the battery case and Class 9 hazardous goods marking.

The net quantity of lithium –metal battery (cells), shall be exceed 2.5kg if transport as PI 968, and need to paste the Li-metal battery marking and Class 9 hazardous goods marking; The net quantity of lithium-metal battery (cells) shall be exceed 35kg if transport as PI 969 or PI 970, and need to paste the Li-metal battery marking and Class 9 hazardous goods marking.

<Sea Transport >

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Our battery is applicable to the International Maritime Dangerous Goods Code (IMDG-Code) Special provision 230 because it corresponds to either case that the cell – lithium content is less than 1g or the battery – lithium content is less than 2g, so it is permitted to transport as Class 9 Dangerous Goods when it complies with all requirements of the transport conditions.

Hazard Class	Class 9
UN No.	UN3091
Proper shipping name	Lithium metal batteries contained in equipment
Lithium content per pack	6.72 grams=2 ea x 3.36 grams
Net-weight battery-pack	0.23 kg

Related regulations: Following regulations shall be cited and considered.

Transportations	Related organization / Issue documents
Air transport (by airplane)	ICAO(International Civil Aviation Organization) / TI (Technical Instruction) IATA (International Air Transport Association) / DGR (Dangerous Goods Regulations) * 1
Maritime transport (by ship)	IMO (International Maritime Organization) / IMDG Code (International Maritime Dangerous Goods Code) * 2
Land transport (Intra-European)	RID (International Carriage of Dangerous Goods by Rail) , ADR (International Carriage of Dangerous Goods by Road)
USA / UN	USDOT (US Department of Transportation) / DOT 49 CFR (US law) UN: Recommendations on the transport of dangerous goods: Manual of Tests and Criteria 5th revised edition Amendment 1 [ST/SG/AC.10/11/Rev.5/Amend.1]: Part III, Subsection 38.3

Notes:

- *1. Dangerous Goods Regulation – 56th Edition Effective 1 January 2015: International Air Transport Association (IATA)
- *2. IMDG Code IMO/IMDE36-2012 Edition: International Maritime Organization (IMO)

Regulatory Information

Environment-related law of batteries: EU nations have applicable law in accordance with Directive 2006/66/EC and other some countries, China, Korea, Brazil, some provinces of USA and Canada or so have similar law.

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