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Safety Data Sheet

according to WHS Regulations

Printing date 21.09.2021 Revision: 21.09.2021

1 Identification

Product Name: Maxi Evap Cooler Lithium Battery

Other Means of Identification: Battery

Recommended Use of the Chemical and Restriction on Use: Battery

Details of Manufacturer or Importer:

Adventure Operations 71 Charles Ulm Place Eagle Farm, QLD 4009

Australia

Phone Number: 1300 657 022

Emergency telephone number: 1300 657 022

2 Hazard(s) Identification

Hazardous Nature:

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Skull and crossbones

Acute Toxicity (Inhalation) 2 H330 Fatal if inhaled.



Health hazard

Respiratory Sensitisation 1 H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Carcinogenicity 2 H351 Suspected of causing cancer.

Toxic To Reproduction 1B H360 May damage fertility or the unborn child.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.



Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Skin Sensitisation 1 H317 May cause an allergic skin reaction.

Signal Word Danger

Hazard Statements

H330 Fatal if inhaled.

H315 Causes skin irritation.

H318 Causes serious eye damage.

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H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements

P310

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

P270 Do not eat, drink of smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P320 Specific treatment is urgent (see on this label).
P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Comp	Hazardous Components:	
CAS: 12190-79-3		40-45%
	Acute Toxicity (Inhalation) 2, H330; & Respiratory Sensitisation 1, H334; Toxic To Reproduction 1B, H360; STOT RE 1, H372	
CAS: 1333-86-4	Carbon black	4-5%
	♦ STOT RE 2, H373	
CAS: 623-53-0	Ethyl methyl carbonate	2-3%
	♦ Flammable Liquids 2, H225	
CAS: 7440-02-0	Nickel	2-3%
	♦ Carcinogenicity 2, H351; STOT RE 1, H372; ♦ Skin Sensitisation 1, H317	
CAS: 21324-40-3	Phosphate(1-), hexafluoro-, lithium	2-3%
	Acute Toxicity (Oral) 3, H301; STOT RE 1, H372; Skin Corrosion/	
Non Hazardous Components:		<u> </u>

Non Hazardous	Non Hazardous Components:	
CAS: 7782-42-5	Graphite	20-23%
CAS: 7440-50-8	Copper	6-8%
CAS: 7429-90-5	Aluminium	3-5%

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Additional information:

The battery is sealed hermetically and designed to withstand temperatures and pressures encountered during normal use. Thus, the ingredients have no hazard potential except if the battery is violated or dismantled. If exposed to a fire, mechanical shocks, and electric stress by miss-use, the battery cell case will be breached and the hazardous materials may be released and acrid gas may be emitted. Therefore the batteries should not be short circuited, overcharged, punctured, incinerated, immersed in water, force discharged or exposed to temperatures above the temperature range of the cell or battery.

4 First Aid Measures

Inhalation:

If the contents of an open battery are inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Skin Contact:

In case of skin contact with the contents of an open battery, immediately remove contaminated clothing and wash affected areas with water and soap for at least 15 minutes. Seek medical attention.

Eye Contact:

In case of eye contact with the contents of an open battery, rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately.

Ingestion:

If the contents of an open battery are swallowed, induce vomiting if patient is conscious, keeping head below hips to prevent aspiration. Give plenty of water or milk. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

Symptoms Caused by Exposure:

Inhalation: The contents of an open battery are fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties. May cause respiratory irritation.

Skin Contact: The contents of an open battery cause skin irritation. May cause an allergic skin reaction. May cause burning and drying of the skin.

Eve Contact: The contents of an open battery cause serious eye damage.

Ingestion: The contents of an open battery may be harmful if swallowed.

5 Fire Fighting Measures

Suitable Extinguishing Media: Water spray and carbon dioxide.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon, lithium oxide fumes, and peroxides.

The battery may vent in a fire, exposing the hazardous inner components.

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers

Minimise run-off from fire fighting measures entering drains or water courses.

HAZCHEM Code: 2Y

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

If the battery inner contents are released, wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area, allowing the battery to cool and vapours to dissipate. Do not breathe vapours. Ensure adequate ventilation.

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Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

7 Handling and Storage

Precautions for Safe Handling:

Charge according to manufacturer's specifications.

Do not overcharge, short-circuit, force discharge, disassemble, crush, deform, expose to high temperatures or incinerate. Do not allow battery terminals to contact each other or other metals. Do not weld, solder or in any way modify batteries. Do not damage or remove the external casing. Ensure batteries are installed with the correct polarity.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Storage preferably in cool, dry and well ventilated area. Avoid exposure to air over prolonged periods. Ensure battery terminals are protected during storage. Batteries must be packed in a manner to prevent short circuits. Loose batteries should not be stored in bulk. Protect from mechanical and electrical abuse such as short circuiting, overcharging, installing with incorrect polarity, disassembling or crushing. Avoid high temperatures over 70 °C and temperature change. Protect from heat, sparks, open flames and direct sunlight. Avoid excessive moisture. Keep away from oxidising agents, bases, water, mineral acids, and halogenated hydrocarbons.

8 Exposure Controls and Personal Protection

Expo	Exposure Standards:	
CAS:	7440-50-8 Copper	
WES	TWA: 1* 0.2** mg/m³ *dust & mists (as Cu) **fume	
CAS:	1333-86-4 Carbon black	
WES	TWA: 3 mg/m³	
CAS:	7429-90-5 Aluminium	
WES	TWA: 10* 5** mg/m³ *metal dust;**welding, pyro powders	
CAS: 7440-02-0 Nickel		
WES	TWA: 1 mg/m³ Metal: Sen	
CAS: 7782-42-5 Graphite		
WES	TWA: 3 mg/m³	

Engineering Controls:

Natural ventilation should be adequate under normal use conditions. If the battery inner contents are released, provide as much ventilation as possible, maintaining air concentrations below occupational exposure standards.

Respiratory Protection:

Respiratory protection is not required under normal use conditions.

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Use an approved vapour respirator if exposed to the battery inner contents. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Skin protection is not required under normal use conditions.

Chemical resistant gloves if exposed to the battery inner contents. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing if exposed to the battery inner contents (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids if exposed to the battery inner contents. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form: Prismatic solid

Colour: No information available

Odour: The battery is odourless. If leaking, smells of medical ether.

Odour Threshold:

pH-Value:

Melting point/freezing point:
Initial Boiling Point/Boiling Range:
Flash Point:

No information available
No information available
No information available
No information available

Flammability: Not applicable.

Ignition TemperatureNo information availableAuto-ignition Temperature:No information availableDecomposition Temperature:No information available

Explosion Limits:

No information available Lower: Upper: No information available Vapour Pressure: No information available Density: No information available **Relative Density:** No information available Vapour Density: No information available **Evaporation Rate:** No information available Solubility in Water: No information available Partition Coefficient (n-octanol/water): No information available No information available Viscosity:

10 Stability and Reactivity

Possibility of Hazardous Reactions: No known hazardous reactions.

Chemical Stability: Stable at ambient temperature and under normal conditions of storage and use.

Conditions to Avoid:

Keep away from heat, sparks, open flames and other sources of ignition. Protect from excess moisture and direct sunlight. Keep under 70 °C. Protect from mechanical and electrical abuse.

Incompatible Materials: Oxidising agents, bases, water, mineral acids, and halogenated hydrocarbons.

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Hazardous Decomposition Products:

Hazardous combustion products include oxides of carbon, lithium oxide fumes, and peroxides.

11 Toxicological Information

Toxicity:

LD50/L	050/LC50 Values Relevant for Classification:	
CAS: 74	CAS: 7440-50-8 Copper	
Oral	LD50	>2,000 mg/kg (rat)
CAS: 13	33-86	4 Carbon black
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>3,000 mg/kg (rabbit)
CAS: 74	CAS: 7440-02-0 Nickel	
Oral	LD50	>9,000 mg/kg (rat)

Acute Health Effects

Inhalation:

The contents of an open battery are fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties. May cause respiratory irritation.

Skin:

The contents of an open battery cause skin irritation. May cause an allergic skin reaction. May cause burning and drying of the skin.

Eye: The contents of an open battery cause serious eye damage.

Ingestion: The contents of an open battery may be harmful if swallowed.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Causes serious eye damage.

Respiratory or Skin Sensitisation:

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ Cell Mutagenicity: Based on classification principles, the classification criteria are not met.

Carcinogenicity:

Suspected of causing cancer.

Nickel, Carbon black, and Cobalt and cobalt compounds are classified by IARC as Group 2B - Possibly carcinogenic to humans.

Reproductive Toxicity: May damage fertility or the unborn child.

Specific Target Organ Toxicity (STOT) - Single Exposure:

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.

Chronic Health Effects: No information available

Existing Conditions Aggravated by Exposure: No information available

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12 Ecological Information

Ecotoxicity:

Aquatic toxicity:

The battery inner contents may be harmful to aquatic life.

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	CAS: 7440	CAS: 7440-50-8 Copper	
	EC50/48 h	0.792 mg/l (daphnia)	
	EC50/72 h	0.333 mg/l (algae)	
	LC50/96 h	0.0068-0.0156 mg/l (fathead minnow)	
		0.0081 mg/l (fish)	
CAS: 1333-86-4 Carbon black		-86-4 Carbon black	
	LC50/96 h	>1,000 mg/l (brachydanio rerio)	
	CAS: 7440-02-0 Nickel		
	EC50/48 h	1 mg/l (daphnia)	
	LC50/96 h	1.3 mg/l (carp)	

Persistence and Degradability: Slowly biodegradable.

Bioaccumulative Potential: No data available on finished product.

Mobility in Soil: No data available on finished product.

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.

Special Precautions for Landfill or Incineration:

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number

ADG, IMDG, IATA UN3481

Proper Shipping Name

ADG, IMDG, IATA LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

Dangerous Goods Class

ADG Class: 9 Miscellaneous dangerous substances and articles.

Subsidiary Risk:

Packing Group:

Marine pollutant:

No

EMS Number:

F-A,S-I

Hazchem Code:

2Y

Special Provisions: 188, 230, 310, 348, 360, 376, 377, 384, 387

Limited Quantities: 0

Packagings & IBCs - Packing Instruction: P903, P908, P909, P910, P911, LP903, LP904, LP905, LP906 (Contd. on page 8)

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15 Regulatory Information

Australian Invent	tory of Industrial Chemicals:
CAS: 12190-79-3	Lithium cobaltite
CAS: 7782-42-5	Graphite
CAS: 7440-50-8	Copper
CAS: 1333-86-4	Carbon black
CAS: 7440-02-0	Nickel
CAS: 21324-40-3	Phosphate(1-), hexafluoro-, lithium
CAS: 7429-90-5	Aluminium

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 16.09.2021

Prepared by: MSDS.COM.AU Pty Ltd www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 2: Flammable liquids – Category 2 Acute Toxicity (Oral) 3: Acute toxicity – Category 3

Acute Toxicity (Inhalation) 2: Acute toxicity – Category 2

Skin Corrosion/Irritation 1A: Skin corrosion/irritation – Category 1A Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Respiratory Sensitisation 1: Respiratory sensitisation, Hazard Category 1

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Carcinogenicity 2: Carcinogenicity - Category 2

Toxic To Reproduction 1B: Reproductive toxicity - Category 1B

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020"

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