



# Safety Data Sheet

Regulation (EC) No. 1907/2006, 1272/2008

Version No.: 1.0

Printing Date: January 30, 2024

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## SDS REPORT

NINGBO WEIJIA ELECTRONICS TECHNOLOGY CO., LTD.

188# DAGUTANG ROAD, INDUSTRIAL PARK, SIMEN TOWN, YUYAO CITY, ZHEJIANG, CHINA.

SDS Report No. : FC202401290801  
Compilation Date : January 30, 2024  
Trade Name : Li-ion battery 18650 3.7V 2500mAh 9.25Wh  
Composition/Ingredient of The Sample : See Section 3 on the SDS  
Service Requested : Safety Data Sheet (SDS) for the sample with submitted composition.  
Summary : As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878, (EC) No 1272/2008 and are provided per attached.



Signed for and on behalf of  
Technical Center:

# Safety Data Sheet

## Regulation (EC) No. 1907/2006 and 1272/2008

Printing Date: January 30, 2024

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

• **1.1 Product identifier**

• **Trade name:**

Li-ion battery 18650 3.7V 2500mAh 9.25Wh

• **Other means of identification:**

Registration number: No available data.

UFI code: No available data.

• **1.2 Relevant identified uses of the substance or mixture and uses advised against on**

• **Application of the substance/ mixture:**

Supply power for lighter.

• **Uses advised against:**

No available data.

• **Reason why uses advised against:**

No available data.

• **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

NINGBO WEIJIA ELECTRONICS TECHNOLOGY CO., LTD.

188# DAGUTANG ROAD, INDUSTRIAL PARK, SIMEN TOWN, YUYAO CITY, ZHEJIANG, CHINA.

Post code: 315470

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Email: assistant@cn-weijia.com

National contact: Yang Yang

• **Only Representative/other EU contact point:**

No information available.

• **Further information obtainable from:**

NINGBO WEIJIA ELECTRONICS TECHNOLOGY CO., LTD.

• **1.4 Emergency telephone number**

Tel: +086-574-62159858

(Only available during the following office hours 8:00-17:00, for English service only)

### SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• **2.1.1 Classification according to regulation (EC) 1272/2008:**

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Acute Tox. 4 (oral), H302	Additivity formula approach
Skin Corr. 1A, H314	Additivity approach
Skin Sens. 1, H317	Cut-off values/concentration limits approach
Eye Dam. 1, H318	Additivity approach
Carc. 1B, H350	Cut-off values/concentration limits approach
Repr. 1B, H360Fd	Cut-off values/concentration limits approach
STOT RE 1, H372	Cut-off values/concentration limits approach

• **2.1.2 Additional information:**

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For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### • 2.2 Label elements

#### • Labeling according to Regulation (EC) No 1272/2008:

The product is labelled according to CLP Regulation.

#### • Hazard pictograms:



GHS05    GHS07    GHS08

#### • Signal word:

Danger

#### • Hazard-determining components of labelling:

Nickel cobalt manganese acid lithium

Lithium hexafluorophosphate

#### • Hazard statements:

H302            Harmful if swallowed  
 H314            Causes severe skin burns and eye damage  
 H317            May cause an allergic skin reaction  
 H350            May cause cancer  
 H360Fd        May damage fertility or the unborn child  
 H372            Causes damage to organs through prolonged or repeated exposure

#### • Precautionary statement:

P201            Obtain special instructions before use.  
 P260            Do not breathe dust.  
 P280            Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P301+P330+P331+P310    IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.  
 P303+P361+P353+P310    IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor  
 P305+P351+P338+P310    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 or doctor/physician.  
 P308+P313        IF exposed or concerned: Get medical advice/attention.  
 P405            Store locked up.

#### • Supplemental label elements:

Restricted to industrial / professional use only.

### • 2.3 Other hazards

None of the ingredients ( $\geq 0.1\%$ ) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None of the ingredients ( $\geq 0.1\%$ ) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

## SECTION 3: Composition/information on ingredients

### • 3.1 Substance

Not applicable

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### · 3.2 Mixtures

#### · Description of the mixture:

Li-ion battery 18650 3.7V 2500mAh 9.25Wh.

#### Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Nickel cobalt manganese acid lithium	113066-89-0	-	-	36	Skin Sens. 1, H317 Carc. 1B, H350 Repr. 1B, H360Fd 附录17	-
Graphite	7782-42-5	-	231-955-3	18	None	-
Lithium hexafluorophosphate	21324-40-3	-	244-334-7	15	Acute Tox. 3, H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 1, H372	ATE (oral)=200 mg/kg
Iron	7439-89-6	-	231-096-4	12	None	-
Polypropylene	9003-07-0	-	-	8	None	-
Copper	7440-50-8	-	231-159-6	6	None	-
Aluminum	7429-90-5	-	231-072-3	3	None	-
Carbon black	1333-86-4	-	215-609-9	0.5	None	-
Polyvinylidene fluoride	24937-79-9	-	-	0.5	None	-

#### Additional information:

Full text of H- and EUH-statements, see SECTION 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

#### General advice:

IF exposed or concerned: Get medical advice/attention.

#### After inhalation:

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/if you feel unwell.

#### After skin contact:

Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

Immediately call a POISON CENTER or doctor/physician.

#### After eye contact:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

#### After swallowing:

Rinse mouth.

Do NOT induce vomiting.

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Immediately call a POISON CENTER/doctor.

• **4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are as indicated in sections 2 and 11.

• **4.3 Indication of any immediate medical attention and special treatment needed:**

Treat according to symptom, there is not known specific medicine.

### SECTION 5: Fire-fighting measures

• **5.1 Extinguishing media**

• **Suitable extinguishing agents:**

Use CO<sub>2</sub>, chemical powder, water spray or alcohol resistant foam to extinguish.

• **Unsuitable extinguishing media:**

Water with full jet.

• **5.2 Special hazards arising from the substance or mixture:**

May produce corrosive dust/ mist.

• **5.3 Advice for firefighters**

**Protective equipment:**

Wear self-contained breathing apparatus for firefighting.

### SECTION 6: Accidental release measures

• **6.1 Personal precautions, protective equipment and emergency procedures**

• **6.1.1 For non-emergency personnel**

**Protective equipment:**

Protective gloves/protective clothing/eye protection/face protection and respiration protection.

**Emergency procedures:**

Evacuate quickly.

Ensure good ventilation.

Wear protective gloves/ protective clothing/ eye protection/ face protection and respiration protection.

Do not breathe dust.

Avoid contact with skin and eyes.

• **6.1.2 For emergency responders**

**Personal protective equipment:**

Protective gloves/protective clothing/eye protection/face protection and respiration protection.

• **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

• **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Dispose contaminated material as waste according to section 13.

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**6.4 Reference to other sections:**

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

Ensure good ventilation/ exhaust at the workplace.

Absorb spillage to prevent material damage.

Do not breathe dust.

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

Use respiratory protective device against the effects of dust.

Prevent contact with eyes and skin.

Avoid release to the environment.

**Information about fire and explosion protection:**

Keep away from heat source.

**7.2 Conditions for safe storage, including any non-compatibility****Requirements to be met by storerooms and receptacles:**

Store in a cool and well-ventilated place. Keep cool.

**Information about storage in one common storage facility:**

Store in the original container.

**Further information about storage conditions:**

Store locked up.

**Storage class:**

Not applicable.

**7.3 Specific end use(s):**

See section 1.2.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

Country	Limit value - Eight hours	Limit value - Short term
7782-42-5 Graphite		
Belgium	2 mg/m <sup>3</sup>	-
Denmark	2.5 mg/m <sup>3</sup> Respirable aerosol	5 mg/m <sup>3</sup> Respirable aerosol
Finland	2 mg/m <sup>3</sup>	-
France	2 mg/m <sup>3</sup> Respirable aerosol	-
Germany (DFG)	4 mg/m <sup>3</sup> Inhalable aerosol; 1.5 mg/m <sup>3</sup> Respirable aerosol	-
Ireland	10 mg/m <sup>3</sup> Inhalable fraction 4 mg/m <sup>3</sup> Respirable fraction	-

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Latvia	2 mg/m <sup>3</sup>	-
Spain	2 mg/m <sup>3</sup> Inhalable aerosol;	-
Sweden	5 mg/m <sup>3</sup> Respirable aerosol	-
United Kingdom	10 mg/m <sup>3</sup> Inhalable fraction 4 mg/m <sup>3</sup> Respirable fraction	-
7440-50-8 Copper		
Austria	1 mg/m <sup>3</sup> Inhalable aerosol	-
Belgium	1 mg/m <sup>3</sup>	-
Denmark	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
France	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Germany (DFG)	0.01 mg/m <sup>3</sup> Respirable fraction	0.02 mg/m <sup>3</sup> Respirable fraction; 15 minutes average value
Hungary	1 mg/m <sup>3</sup>	4 mg/m <sup>3</sup>
Ireland	1 mg/m <sup>3</sup>	-
Poland	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
Romania	0.5 mg/m <sup>3</sup>	1.5 mg/m <sup>3</sup> 15 minutes average value
Spain	1 mg/m <sup>3</sup>	-
Sweden	1 mg/m <sup>3</sup>	-
United Kingdom	1 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>
7429-90-5 Aluminum		
Denmark	5mg/m <sup>3</sup> inhalable aerosol; 2mg/m <sup>3</sup> respirable aerosol	10mg/m <sup>3</sup> inhalable aerosol; 4mg/m <sup>3</sup> respirable aerosol
France	10 mg/m <sup>3</sup> inhalable aerosol; 5 mg/m <sup>3</sup> respirable aerosol	-
Germany (DFG)	4 mg/m <sup>3</sup> inhalable aerosol; 1.5 mg/m <sup>3</sup> respirable aerosol	-
Hungary	6 mg/m <sup>3</sup> respirable aerosol	-
Ireland	1 mg/m <sup>3</sup> respirable fraction	-
Latvia	2 mg/m <sup>3</sup>	-
Spain	10 mg/m <sup>3</sup> inhalable aerosol; 5 mg/m <sup>3</sup> respirable aerosol	-
United Kingdom	10 mg/m <sup>3</sup> inhalable aerosol; 5 mg/m <sup>3</sup> respirable aerosol	-
1333-86-4 Carbon black		
Belgium	3 mg/m <sup>3</sup>	-
Denmark	3.5 mg/m <sup>3</sup>	7.0 mg/m <sup>3</sup>
Finland	3.5 mg/m <sup>3</sup>	7 mg/m <sup>3</sup> 15 minutes reference period
France	3.5 mg/m <sup>3</sup>	-
Ireland	3.5 mg/m <sup>3</sup>	7 mg/m <sup>3</sup> 15 minutes reference period
Poland	4 mg/m <sup>3</sup> Inhalable fraction	-
Spain	3.5 mg/m <sup>3</sup>	-
Sweden	3 mg/m <sup>3</sup>	-
United Kingdom	3.5 mg/m <sup>3</sup>	7.0 mg/m <sup>3</sup>

• **DNELs:**

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DNEL type		DNEL worker value	DNEL consumer value
21324-40-3 Lithium hexafluorophosphate			
Systemic effects	Long-term, inhalation exposure	931 µg/m <sup>3</sup>	-
	Long-term, dermal exposure	133 µg/kg bw/day	-
7429-90-5 Aluminum			
Systemic Effects	Long-term, inhalation exposure	3.72 mg/m <sup>3</sup>	-
	Long-term, oral exposure	-	3.95 mg/kg bw/day
Local effects	Long-term, inhalation exposure	3.72 mg/m <sup>3</sup>	-

**• PNECs:**

PNEC type	Value
21324-40-3 Lithium hexafluorophosphate	
Freshwater	310 µg/L
Intermittent releases (freshwater)	680 µg/L
Marine water	31 µg/L
Sewage treatment plant (STP)	48 mg/L
Sediment (freshwater)	7.73 mg/kg sediment dw
Sediment (marine water)	1.55 mg/kg sediment dw
Soil	13.5 mg/kg soil dw
7429-90-5 Aluminum	
Sewage treatment plant (STP)	20 mg/L

**• Additional information:**

The lists valid during the marking were used as basis.

**• 8.2 Exposure controls**

• Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.

**• Appropriate engineering controls:**

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and at the end of work.

See section 7 for information about design of technical facilities.

**• Personal protective equipment****• Eye and face protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:

**Safety glasses**

Protective goggles with side-shields.

**• Skin protection****• Hand protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:

**Protective gloves**



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Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness &gt; 0.3mm; breakthrough times up to 480 minutes).

**• Other skin protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:

**Face protection****Safety boots****Safety overalls**

Face shield, gauntlets, boots, bodysuit are recommended.

**• Respiration protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:

**Respiratory equipment**

Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

**• Thermal hazards:**

Not required under normal conditions of use.

For industrial applications, following protection required:

The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

**• Environmental exposure controls:**

Control measures must be made in accordance with Community environmental protection legislation.

### SECTION 9: Physical and chemical properties

**• 9.1 Information on basic physical and chemical properties**

• Physical state	Solid
• Color	Blue
• Odor & Odor threshold	Odorless
• Melting point/freezing point (or softening point/range)	Not determined
• Boiling point or initial boiling point and boiling range	Not determined
• Flammability	Not flammable solid
• Lower and upper explosion limit	Not determined
• Flash point	Not applicable
• Auto-ignition temperature	Not determined
• Decomposition temperature	Not determined
• pH	Not determined
• Kinematic viscosity (mm <sup>2</sup> /s)	Not applicable
• Solubility	Not determined
• Partition coefficient n-octanol/water (log value)	Not applicable
• Vapor pressure	Not determined
• Density and/or relative density	Not determined
• Relative vapor density	Not determined

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· Particle characteristics	Not determined
· 9.2 Other information	
· 9.2.1 Information with regard to physical hazard classes:	
· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· 9.2.2 Other safety characteristics	
· Mechanical sensitivity	Not applicable
· Self-accelerating polymerisation temperature	Not applicable
· Formation of explosible dust/air mixtures	Not applicable
· Acid/alkaline reserve	Not applicable
· Evaporation rate	Not applicable
· Miscibility	Not applicable
· Conductivity	Not applicable
· Corrosiveness	Not applicable
· Gas group	Not applicable
· Redox potential	Not applicable
· Radical formation potential	Not applicable
· Photocatalytic properties	Not applicable
· Other physical and chemical parameters	Not determined

### SECTION 10: Stability and reactivity

#### · 10.1 Reactivity:

The product is non-reactive under normal conditions of use, storage and transport.

#### · 10.2 Chemical stability:

Under storage at normal ambient temperatures, the product is stable.

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**• 10.3 Possibility of hazardous reactions:**

No known hazardous reaction.

**• 10.4 Conditions to avoid:**

High temperature and flame.

**• 10.5 Incompatible materials:**

Strong oxidizing agent and acids.

**• 10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses.

**SECTION 11: Toxicological information****• 11.1 Information on toxicological effects****• Acute toxicity:**

Harmful if swallowed.

ATE <sub>mix</sub> (oral)	=	1333.3mg/kg
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Species	Effective Dose	Results	Method/Source
21324-40-3	Lithium hexafluorophosphate		
Rat	LD50-oral	50 - 300 mg/kg	ECHA registered dossier.
1333-86-4	Carbon Black		
Rat	LD50-oral	>15400 mg/kg	Acute Toxicity Data. Journal of the American College of Toxicology, Part B. Vol. 15.
Rabbit	LD50-dermal	>3000 mg/kg	Toxicological Data, compiled by the National Institute of Health (NIH), USA, selected and distributed by Technical Database Services (TDS), New York, 2009.

**• Skin corrosion/irritation:**

Causes severe skin burns and eye damage.

**• Serious eyes damage/ irritation:**

Causes serious eye damage.

**• Respiratory or skin sensitization:**

May cause an allergic skin reaction.

**• Germ cell mutagenicity:**

Based on available data, the classification criteria are not met.

**• Carcinogenicity:**

May cause cancer.

**• Reproductive toxicity:**

May damage fertility or the unborn child.

**• STOT-single exposure:**

Based on available data, the classification criteria are not met.

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• **STOT-repeated exposure:**

Causes damage to organs through prolonged or repeated exposure.

• **Aspiration hazard:**

Based on available data, the classification criteria are not met.

• **11.2 Information on other hazards**

• **11.2.1 Endocrine disrupting properties:**

None of the ingredients ( $\geq 0.1\%$ ) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

• **11.2.2 Other information:**

No known other relevant information on adverse health effects.

### SECTION 12: Ecological information

• **12.1 Toxicity:**

Species	Effect dose	Test duration	Value
21324-40-3 Lithium hexafluorophosphate			
<i>Oryzias latipes</i>	LC50	96h	369 mg/L
<i>Pimephales promelas</i>	LC50	96h	42 mg/L
<i>Pimephales promelas</i>	NOEC	96h	13 mg/L
<i>Oncorhynchus mykiss</i>	LC50	96h	51 mg/L
<i>Pimephales promelas</i>	EC50	22d	1 mg/L
<i>Pimephales promelas</i>	NOEC	22d	0.2 mg/L
Rainbow trout	LC50	20d	$\geq 2.7 - \leq 4.7$ mg/L
<i>Daphnia magna</i>	LC50	48h	>100 mg/L
<i>Daphnia magna</i>	NOEC	48h	100 mg/L
<i>Daphnia magna</i>	EC50	21d	29 mg/L
Freshwater algae	EC50	72h	>100 mg/l.
Freshwater algae	NOEC	72h	22 mg/l

• **12.2 Persistence and degradability:**

CAS	Substance	Biodegradation	Hydrolysis
21324-40-3	Lithium hexafluorophosphate	-	DT50=0.05min

• **12.3 Bio-accumulative potential:**

CAS	Substance	Log Pow	BCF
21324-40-3	Lithium hexafluorophosphate	-	<31

• **12.4 Mobility in soil:** No available data.

• **12.5 Results of PBT and vPvB assessment:**

This mixture does not contain any substances ( $\geq 0.1\%$ ) that are assessed to be a PBT or a vPvB.

• **12.6 Endocrine disrupting properties:**

None of the ingredients ( $\geq 0.1\%$ ) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

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• **12.7 Other adverse effects:**

No known other adverse effects.

• **12.8 Additional ecological information**

• **General notes:**

WGK2 (German Regulation) (self-assessment): obviously hazardous to water.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

### SECTION 13: Disposal consideration

• **13.1 Waste treatment methods**

• **Recommendation:**

Must not be disposed together with household garbage.

• **13.2 Un-cleaned packaging**

• **Recommendation:**

Dispose of contents/container in according to the local/regional/national/ international regulation.

### SECTION 14: Transport information

• **ADR/ADN/RID (2023 Edition)**

This product is not subject to ADR/ADN/RID according to special provision 188.

• **IMO/IMDG (41-22)**

This product is not subject to IMO/IMDG code according to special provision 188.

• **14.1 UN-Number**

**IATA-DGR (65th)**

UN3481

• **14.2 UN proper shipping name**

**IATA-DGR (65th)**

LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

• **14.3 Transport hazard class (es)**

**IATA-DGR (65th)**



**Class**

9 Miscellaneous dangerous substances and articles

**Label**

9

• **14.4 Packing group**

**IATA-DGR (65th)**

Not applicable

• **14.5 Marine pollution**

**Marine Pollutants (Yes/No)**

-

**Special mark**

-

• **14.6 Special precautions for user**

Not applicable

• **Danger code (Kemler)**

Not applicable

• **EMS number**

F-A, S-I

• **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Void

**Additional information**

**Land transport (ADR/RID)**

**Limited quantity**

0

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Special provisions	188, 230, 310, 348, 360, 376, 377, 387, 390, 670
<b>Inland waterway transport (ADN)</b>	
Limited quantity	0
Special provisions	188, 230, 310, 348, 360, 376, 377, 387, 390, 670
<b>Sea transport (IMO-IMDG)</b>	
Limited quantity	0
Special provisions	188, 230, 310, 348, 360, 376, 377, 384, 387, 390
<b>Air transport (IATA-DGR)</b>	
Limited quantity	Passenger and Cargo Aircraft: Forbidden Cargo Aircraft Only: 35kg
Special provisions	A48, A88, A99, A154, A164, A181, A185, A206, A213, A220

### SECTION 15: Regulatory information

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **MAK (German Maximum Workplace Concentration):**

7782-42-5	Graphite	4
1333-86-4	Carbon black	3

• **Directive 2012/18/EU**

• **Named dangerous substances-ANNEX I:**

None of the ingredients is listed.

• **Seveso category:**

Not applicable

• **Qualifying quantity (tonnes) for the application of lower-tier requirements:**

Not applicable

• **Qualifying quantity (tonnes) for the application of upper-tier requirements:**

Not applicable

• **National regulations.**

• **Water hazard class:**

WGK2 (German Regulation) (self-assessment): obviously hazardous to water.

• **Other regulations, limitations and prohibitive regulations**

• **SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

None of the ingredients is listed.

• **REACH Regulation Annex XVII Restriction:**

None of the ingredients is listed.

• **REACH Regulation Annex XIV Authorization List:**

None of the ingredients is listed.

• **15.2 Chemical safety assessment:**

A Chemical Safe Assessment has not been carried out.

### SECTION 16: Other information

• **16.1 Indication of changes:**

None.

# Safety Data Sheet

## Regulation (EC) No. 1907/2006 and 1272/2008

**Printing Date:** January 30, 2024

**Version No.:** 1.0

**Revision:** January 30, 2024

**Trade Name:** Li-ion battery 18650 3.7V 2500mAh 9.25Wh

**• 16.2 Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).*

*IMDG: International Maritime Code for Dangerous Goods.*

*IATA: International Air Transport Association.*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*PBT: Persistent, Bio accumulative and Toxic*

*vPvB: very persistent and very bio accumulative*

*SVHC: Substance of Very High Concern*

*LD50: Lethal dose, 50 percent*

*LC50: Lethal concentration, 50 percent*

*EC50: Concentration of maximal effect, 50 percent*

*NOEC: No observed effect concentration*

*Acute Tox. 3: Acute toxicity, hazard category 3*

*Acute Tox. 4: Acute toxicity, hazard category 4*

*Skin Corr. 1A: Skin corrosion/irritation, hazard category 1A*

*Skin Sens. 1: Skin sensitization, hazard category 1*

*Eye Dam. 1: Eye damage/irritation, hazard category 1*

*Carc. 1B: Carcinogenicity, hazard category 1B*

*Repr. 1B: Reproductive toxicity, hazard category 1B*

*STOT RE 1: Specific target organ toxicity after repeated exposure, hazard category 1*

**• 16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>

<https://chem.nlm.nih.gov/>

<https://www.osha.gov/>

<http://www.unece.org/>

<http://www.imo.org/>

<https://www.dguv.de/>

<https://epa.govt.nz/>

<http://www.ilo.org/>

<https://www.phmsa.dot.gov/>

**• 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]:**

See section 2.1 (classification).

**• 16.5 Relevant H- and EUH-phrases (number and full text):**

H301 Toxic if swallowed

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H350 May cause cancer

H360Fd May damage fertility or the unborn child

**Safety Data Sheet**  
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*H372 Causes damage to organs through prolonged or repeated exposure*

**· 16.6 Training advice:**

*Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.*

**· 16.7 Further information:**

*The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.*

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*The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.*

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*End of safety data sheet*