



Safety Data Sheet

according to Regulation (EC) No 1907/2006

RP-Technik GmbH

AMCC403WL-E

Revision date: 19.03.2025

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

1.1. Product identifier

AMCC403WL-E

Further trade names

Type: 3,2 V; 1200 mAh; 3,84 Wh

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

batteries and accumulators

1.3. Details of the supplier of the safety data sheet

Company name:	RP-Technik GmbH	
Street:	Hermann-Staudinger-Str. 10-16	
Place:	D-63110 Rodgau	
Telephone:	+49 (6106) 660 28 - 0	+49 (6106) 660 28 - 40
E-mail:	info@rp-group.com	
Contact person:	Francisco Goerke	
E-mail:	product@rp-group.com	

1.4. Emergency telephone number:

+49 (6106) 660 28 - 0 (24 h.)

Further Information

This battery pack is an article according to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010, and is not subject to the REACH regulation. The information contained in this safety data sheet contains valuable and critical information for the safe and proper use of the product. This SDS should be kept and made available to employees and other users of the product.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute Tox. 4; H302
Skin Corr. 1A; H314
Eye Dam. 1; H318
Skin Sens. 1; H317
Carc. 2; H351
STOT RE 1; H372
STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: not applicable / not relevant
The product is: article (batteries and accumulators)

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
Risk of explosion by shock, friction, fire or other sources of ignition. (Formation of: Gases/vapours, toxic) Do not open container by force. To avoid risks to man and the environment, comply with the instructions for use.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

The product is: article (batteries and accumulators)

Relevant ingredients

CAS No	Chemical name	Quantity
21324-40-3	Lithium hexafluorophosphate(1-)	15 - 22 %
244-334-7	—	—
—	Acute Tox. 3, Skin Corr. 1A, Eye Dam. 1, STOT RE 1; H301 H314 H318 H372	—
7440-50-8	Copper	10 - 15 %
231-159-6	—	—
—	Aquatic Acute 1, Aquatic Chronic 3; H400 H412	—
7440-02-0	Nickel	0,5 - 1 %
231-111-4	028-002-00-7	—
—	Carc. 2, Skin Sens. 1, STOT RE 1; H351 H317 H372	—

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
21324-40-3	244-334-7	Lithium hexafluorophosphate(1-)	15 - 22 %
—	Specific Conc. Limits, M-factors and ATE	—	—
—	oral: ATE = 100 mg/kg	—	—

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical attention. The following notes refer to direct contact with the contents of the battery or accumulator.

After inhalation

Provide fresh air. If breathing difficulties or respiratory arrest occur, initiate artificial respiration. Seek medical advice/medical assistance.

After contact with skin

Wash with plenty of water/soap. Remove contaminated clothing and wash before reuse. Medical treatment necessary.

After contact with eyes

In case of contact with eyes, immediately rinse with running water for 10 to 15 minutes with eyelids held open and consult an ophthalmologist. Remove contact lenses if possible. Continue rinsing.

After ingestion

Immediately rinse mouth and drink plenty of water. Induce vomiting if the affected person is conscious. Immediately seek medical advice/medical assistance.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), water spray. Adapt firefighting measures to the surrounding area.
Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

Danger of bursting container. (Electrolyte: Highly flammable). In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), toxic metal oxide smoke, corrosive. Pyrolysis products, toxic, containing fluorine.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Full protective suit.

Additional information

Knock down gases/vapours/mists with water spray. Use water spray to protect persons and to cool containers in the danger area. Collect contaminated extinguishing water separately. Do not allow to enter drains or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Do not inhale gas/smoke/vapour/aerosol. Avoid contact with skin, eyes and clothing. Bring persons to safety. Ensure adequate ventilation. Remove all ignition sources. Use personal protective equipment.

For non-emergency personnel

Wear personal protective equipment (see Section 8).

For emergency responders

Wear personal protection equipment (refer to section 8).

6.2. Environmental precautions

Avoid release into the environment.

6.3. Methods and material for containment and cleaning up

For containment

Eliminate leakage if safely possible. Batteries and accumulators: explosive due to impact, friction, fire or other ignition sources.

For cleaning up

Collect mechanically. Treat collected material according to the disposal section. Electrolyte: Absorb with liquid-binding material (sand, diatomite, acid binder, universal binder). Treat collected material according to the disposal section.

Other information

Use non-sparking tools.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Handle with care - avoid bumps, friction and impact. Do not open container forcibly. Do not inhale gas/smoke/vapour/aerosol. Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion



Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take measures to prevent electrostatic charging.

Advice on general occupational hygiene

Remove contaminated clothing and wash before reuse. Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff at the workplace.

Further information on handling

Comply with instructions for use to avoid risks to humans and the environment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a cool and dry place. Ensure adequate ventilation and point extraction at critical points. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Do not store together with: metals (including alloys), acids, alkalis (lyes), halogenated hydrocarbons, strong oxidising agents.

Further information on storage conditions

Keep away from heat. (Temperature > 70 °C) Protect from direct sunlight. Protect from moisture.

7.3. Specific end use(s)

batteries and accumulators



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
7429-90-5	Aluminium metal (Respirable Fraction)	-	1	—	TWA (8 h)	—
7440-50-8	Copper, fume	-	0.2	—	TWA (8 h)	—
-	Fluorides, inorganic	-	2.5	—	TWA (8 h)	—
7782-42-5	Graphite (all forms except fibres) (Respirable Fraction)	-	2	—	TWA (8 h)	—
-	Iron salts (as Fe)	-	1	—	TWA (8 h)	—
-	—	-	2	—	STEL (15 min)	—
7440-02-0	Nickel	-	0.5	—	TWA (8 h)	—

Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
7440-02-0	Nickel	Ni	3 µg/L	Urine	After several consecutive working shifts

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation and point extraction at critical points.

Individual protection measures, such as personal protective equipment

Eye/face protection

When exposed (electrolyte): Wear safety goggles/face shield.

Hand protection



When exposed (electrolyte): Wear suitable protective gloves (EN ISO 374). Only chemical-resistant gloves with CE marking including four-digit test number may be used. Selection of gloves should be made specific to the workplace depending on concentration and quantity of hazardous substances.

Skin protection

Wear suitable protective clothing during work.

Respiratory protection

When exposed (electrolyte): Wear respiratory protection in case of inadequate ventilation.

Thermal hazards

Flame-retardant clothing. Wear antistatic footwear and work clothing.

Environmental exposure controls

Avoid release into the environment.



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	No information available.
Odour:	odourless
Odour threshold:	not applicable
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	Electrolyte: Highly flammable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	not applicable
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH-Value:	not applicable
Viscosity / kinematic:	not applicable
Water solubility:	practically insoluble
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	not determined
Density:	not determined
Relative vapour density:	not determined
Particle characteristics:	not determined

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Heat / In case of fire: Danger of bursting container.

10.4. Conditions to avoid

Heat (Temperature > 70 °C). Impact, friction, shock. Direct sunlight. Moisture.

10.5. Incompatible materials

Metals (including alloys), acids, alkalis (lyes), halogenated hydrocarbons, strong oxidising agents.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO₂), toxic metal oxide smoke, corrosive. Pyrolysis products, toxic, containing fluorine.



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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed. (Electrolyte: Lithium hexafluorophosphate(1-), oral ATE = 100 mg/kg)

ATEmix calculated

ATE (oral) 100 mg/kg; ATE (dermal) not determined; ATE (inhalation vapour) not determined; ATE (inhalation dust/mist) not determined

CAS No	Chemical name				
—	Exposure route	Dose	Species	Source	Method
21324-40-3	Lithium hexafluorophosphate(1-)				
—	oral	ATE 100 mg/kg	—	—	—

Irritation and corrosivity

Causes severe skin burns and eye damage. Causes serious eye damage. (Electrolyte)

Sensitising effects

May cause an allergic skin reaction. (nickel)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (nickel)

STOT-single exposure

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

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Lithium hexafluorophosphate(1-)). May cause damage to organs through prolonged or repeated exposure. (nickel). Electrolyte.

Aspiration hazard

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

Information on likely routes of exposure

Skin contact. Electrolyte: oral, skin contact, eye contact, inhalation.

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.



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SECTION 12: Ecological information

12.1. Toxicity

Copper: Aquatic Acute 1, Aquatic Chronic 3; H400 H412. The product itself is an article and not classified as ecotoxic under normal use.

12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Do not pierce or burn, even after use. Batteries and accumulators must be disposed of separately from household waste in accordance with applicable regulations.

Contaminated packaging

Dispose of waste according to applicable legislation.



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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3481

14.2. UN proper shipping name: LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

14.3. Transport hazard class(es): 9

14.4. Packing group: -



Hazard label: 9A

Classification code: M4

Special Provisions: 188 230 310 348 360 376 377 387 390 670

Limited quantity: 0

Excepted quantity: E0

Transport category: 2

Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 3481

14.2. UN proper shipping name: LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

14.3. Transport hazard class(es): 9

14.4. Packing group: -



Hazard label: 9A

Classification code: M4

Special Provisions: 188 230 310 348 360 376 377 387 390 670

Limited quantity: 0

Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number or ID number: UN 3481

14.2. UN proper shipping name: LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

14.3. Transport hazard class(es): 9

14.4. Packing group: -



Hazard label: 9A

Special Provisions: 188 230 310 348 360 376 377 384 387 390

Limited quantity: 0

Excepted quantity: E0

EmS: F-A, S-I

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3481

14.2. UN proper shipping name: LITHIUM ION BATTERIES CONTAINED IN EQUIPMENT

14.3. Transport hazard class(es): 9

14.4. Packing group: -



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Hazard label: 9A

Special Provisions: A48 A88 A99 A154 A164 A181 A185 A213 A22

Limited quantity Passenger: Forbidden

Passenger LQ: Forbidden

Excepted quantity: E0

IATA-packing instructions - Passenger: 967

IATA-max. quantity - Passenger: 35 kg

IATA-packing instructions - Cargo: 967

IATA-max. quantity - Cargo: 35 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Protect against: Heat, condensation, humidity. Handle with care - avoid bumps, friction and impact.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 27, Entry 40, Entry 75

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Marketing and use of explosives precursors (Regulation (EU) 2019/1148):

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Additional information

There is no requirement for the product to be specially labelled according to EC directives or the corresponding national laws.

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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SECTION 16: Other information

Abbreviations and acronyms

Water-react: Substance and mixture which, in contact with water, emits flammable gas
Flam. Sol: Flammable solid
Acute Tox: Acute toxicity
Skin Corr: Skin corrosion
Eye Dam: Eye damage
Skin Sens: Skin sensitisation
Carc: Carcinogenicity
STOT RE: Specific target organ toxicity - repeated exposure
Aquatic Acute: Acute aquatic hazard
Aquatic Chronic: Chronic aquatic hazard
CLP: Classification, labelling and Packaging
REACH: Registration, Evaluation and Authorization of Chemicals
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals
UN: United Nations
CAS: Chemical Abstracts Service
M-Factor: Multiplication Factor
DNEL: Derived No Effect Level
DMEL: Derived Minimal Effect Level
PNEC: Predicted No Effect Concentration
ATE: Acute toxicity estimate
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%
LL50: Lethal loading, 50%
EL50: Effect loading, 50%
EC50: Effective Concentration 50%
ErC50: Effective Concentration 50%, growth rate
NOEC: No Observed Effect Concentration
BCF: Bio-concentration factor
PBT: persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
ADR: Accord européen sur le transport des marchandises dangereuses par Route
RID: Regulations concerning the international carriage of dangerous goods by rail
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IMDG: International Maritime Code for Dangerous Goods
EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
TI: Technical Instructions
DGR: Dangerous Goods Regulations
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
EG or EC: European Community
IE: Industrial Emissions
SVHC: Substance of Very High Concern

Key literature references and sources for data

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). (v.1.2, 2013)

Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method



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Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method
Carc. 2; H351	Calculation method
STOT RE 1; H372	Calculation method
STOT RE 2; H373	Calculation method

Relevant H and EUH statements (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.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)