



Safety Data Sheet

1. IDENTIFICATION

Product Identifier

Rescue LiFePo4 portable power pack

Other means of identification

Portable Power Pack with LiFePo4 battery

Product Code

604022, 604300, 604301

Recommended use of the chemical and restrictions on use

Recommended for commercial/industrial use – Battery Power

Not recommended for household use

Details of the supplier of the safety data sheet

Quick Cable Corporation
3700 Quick Drive
Franksville, WI 53126-0509
www.quickcable.com

Emergency Telephone Number (24 hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture; Classification according to the Regulation (EC) No 1272/2008 [CLP]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Label elements

Symbols/Pictograms Not applicable

Signal word Not applicable

Hazard statements Not applicable

EU specific hazard statements safety data sheet available upon request

Precautionary statements Not applicable

Other hazards: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	CAS No.	Weight %	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to the Regulation (EC) No 1272/2008 [CLP]
Phosphoric acid, iron(2+) lithium salt (1:1:1)	-	15365-14-7	30-50	Not classified	Not classified
Graphite	-	7782-42-5	15-25	Not classified	Not classified
Phosphate(1-), hexafluoro-lithium	-	21324-40-3	10-20	Not classified	Not classified
copper	231-159-6	7440-50-8	7-14	Not classified	Not classified
Aluminum foil	231-072-3	7429-90-5	3-10	F; R11-15	Flam. Sol. 1 (H228) water-react. 2 (H261)
1,1-Difluoroethylene polymer	-	24937-79-9	3-8	Not classified	Not classified

4. FIRST-AID MEASURES

General advice: Remove contaminated clothing and shoes. If symptoms persist, call a physician.

Inhalation: Not an expected route of exposure. IF INHALED, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact: Wash hands thoroughly after handling.

Eye contact: Not an expected route of exposure.

Ingestion: Not an expected route of exposure. If swallowed, call a poison control center or physician immediately.

Most important symptoms and effects, both acute and delayed: None known

Indication of any immediate medical attention and special treatment needed: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable: No information available.

Special hazards arising from the substance or mixture: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Advice for firefighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas.

Ensure adequate ventilation, especially in confined areas.

Remove all sources of ignition.

Use personal protection recommended in Section 8.

Environmental precautions: Avoid release to the environment.

Methods and material for containment and clean up: Pick up and transfer to properly labeled containers.

Reference to other sections: See sections 7, 8, 13 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices.

Ensure adequate ventilation, especially in confined areas.

Avoid creating dust.

Avoid contact with eyes.

Wash thoroughly after handling.

Use personal protection recommended in Section 8.

Conditions for safe storage, including incompatibilities

Keep containers tightly closed in a dry, cool, and well ventilated place.

Keep away from heat.

Protect from sunlight.

Keep locked up and out of reach of children.

Keep away from food, drink, and animal feeding stuffs.

Store in accordance with local regulations.

Specific end use(s)

Apart from the uses mentioned in Section 1, no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	Australia	Austria	Belgium	Denmark	European Union
Graphite (CAS 7782-42-5)	3 mg/m ³	STEL 10 mg/m ³ TWA 5 mg/m ³	-	TWA 2.5 mg/m ³	-
Phosphate (1-) hexafluoro-lithium (CAS 21324-40-3)	2.5 mg/m ³	-	-	TWA 2.5 mg/m ³	-
Copper (CAS 7440-50-8)	1 mg/m ³ 0.2 mg/m ³	STEL 4 mg/m ³ STEL 0.4 mg/m ³ TWA 1 mg/m ³ TWA 0.1 mg/m ³	-	TWA 1.0 mg/m ³ TWA 0.1 mg/m ³	-
Aluminum foil (CAS 7429-90-5)	10 mg/m ³ 5 mg/m ³	STEL 20 mg/m ³ TWA 10 mg/m ³	-	TWA 5 mg/m ³ TWA 2 mg/m ³	-
Chemical name	Latvia	France	Finland	Germany	Italy
Aluminum foil (CAS 7429-90-5)	TWA 2 mg/m ³	TWA 10 mg/m ³ TWA 5 mg/m ³	TWA 1.5 mg/m ³	TWA 4 mg/m ³ TWA 1.5 mg/m ³	-
Chemical name	Poland	Portugal	Spain	Switzerland	Netherlands
Aluminum foil (CAS 7429-90-5)	TWA 2.5 mg/m ³ TWA 1.2 mg/m ³	TWA 10 mg/m ³ TWA 5 mg/m ³	TWA 10 mg/m ³ TWA 5 mg/m ³	TWA 3 mg/m ³	TWA 1.05 mg/m ³

Chemical name	Norway	United Kingdom	ACGIH TLV	OSHA PEL	NIOSH IDLH
Graphite (CAS 7782-42-5)	-	-	TWA 2 mg/m3 respirable fraction all forms except graphite fibers	-	-
Phosphate (1-) hexafluoro-lithium (CAS 21324-40-3)	-	-	TWA 2.5 mg/m3	-	-
Copper (CAS 7440-50-8)	-	-	TWA 0.2 mg/m3, fume TWA 1 mg/m3 Cu dust and mist	-	-
Aluminum foil (CAS 7429-90-5)	TWA 5 mg/m3 STEL 10 mg/m3	STEL 30 mg/m3 STEL 12 mg/m3 TWA 10 mg/m3 TWA 4 mg/m3	TWA 1 mg/m3 respirable fraction	TWA 15 g/m3 total dust TWA 5 mg/m3 respirable fraction (vacated) TWA 15 mg/m3 total dust (vacated) TWA 5 mg/m3 respirable fraction (vacated) TWA 5 mg/m3 Al Aluminum	TWA 10 mg/m3 total dust TWA 5 mg/m3 respirable dust TWA 5 mg/m3 Al

Derived No Effect Level (DNEL): No information available

Predicted No Effect Concentration (PNEC): No information available

Engineering controls: Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection: No special technical protective measures are necessary

Hand protection: Wear protective gloves

Skin and body protection: Suitable protective clothing

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls: Do not allow into any sewer, on the ground, or in any body of water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid	Color	No information available
Odor	Odorless	Odor threshold	No information available
pH	No information available	Melting point/freezing point	No information available
Boiling point/boiling range	No information available	Flash point	No information available
Evaporation rate	No information available	Flammability (solid, gas)	No information available
Flammability limit in air	No information available	Vapor pressure	No information available
Vapor density	No information available	Density	No information available
Relative density	No information available	Bulk density	No information available
Specific gravity	No information available	Water solubility	No information available
Partition coefficient	No information available	Auto-ignition temp	No information available
Decomposition temp.	No information available	Kinematic viscosity	No information available
Dynamic viscosity	No information available	Explosive properties	Not an explosive
Oxidizing properties	No information available		

Other information: No information available

10. STABILITY AND REACTIVITY

Reactivity: No information available

Chemical stability: Stable under recommended storage conditions

Possibility of hazardous reactions: Non under normal processing

Conditions to avoid: Extreme heat, incompatible materials

Incompatible materials: Strong acids, strong bases, strong oxidizing agents

Hazardous decomposition products: None under normal use conditions

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical name	Oral LD50	Dermal SL50	Inhalation LC50
Copper	LD50> 2500 mg/kg bw (rat)	LD50> 2000 mg/kg bw (rat)	LC50= 1.03 mg/l/4 h (rat)

Skin corrosion/irritation: Non-irritating to the skin

Serious eye damage/eye irritation: No eye irritation

Sensitization: Not information available

Germ cell mutagenicity: No information available

Carcinogenicity: No information available

Reproductive toxicity: No information available

STOT – single exposure: No information available

STOT – repeated exposure: No information available

Aspiration hazard: No information available

12. ECOLOGICAL INFORMATION

Toxicity

Chemical name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Copper	0.031 – 0.054 mg/l/96 h Pseudokirchneriella subcapitata static 0.0426 – 0.0535 mg/l/72h Pseudokirchneriella subcapitata static	-	-

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility in soil: No information available

Results of PBT and vPvB assessment: PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Contaminated packaging: Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

According to PACKING INSTRUCTION 965 ~ 970 of IATA DGR 54th Edition for transportation, special provision 188 IMDG (including amendment 35-10). The batteries should be securely packed and protected against short circuits. Examine to ensure the packing of containers are integrate and secure before transport. Handle cargo without dropping or breakage. Do not put goods near oxidizers or areas handling food. The transport vehicle and ship must be cleaned and sterilized before assembling articles for shipment. When transporting by sea, the articles must be stored away from living quarters and food preparation areas. Isolate from engine room, power, and fire sources. During transport, the vehicle should prevent exposure, rain, and high temperature. For stopovers, the vehicle should be stored away from fire and heat sources. When transporting by road vehicle, the shipment must remain on the scheduled route, with no stopover in residential or congested areas. Use of wooden or cement bulk packaging for international transport is forbidden.

UN number: Not regulated

Proper shipping name: Not regulated

Hazard class: Not regulated

Packing group: Not regulated

Environmental hazards: Not applicable

Special precautions: No information available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

15. REGULATORY INFORMATION

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

Chemical name	French RG number	Title
Aluminum foil (CAS 7429-90-5)	RG 32, RG 16, RG 16bis	-

European Union

Directive 98/24/EC for the protection of the health and safety of workers from the risks related to chemical agents at work.

Directive 94/33/EC for the protection of young people at work.

Directive 92/85/EC for the protection of pregnant and breastfeeding women at work.

International inventories

Component	TSCA	DSL/ NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Phosphoric acid, iron (2+) lithium salt (1:1:1) 15365-14-7 (30-50)	-	X	-	-	-	-	-	-
Graphite 7782-42-5 (15-25)	X	X	X	-	X	X	X	X
Phosphate (1-), hexafluoro- lithium 21324-40-3 (10-20)	X	X	X	X	X	X	X	X
Copper 7440-50-8 (7-14)	X	X	X	-	X	X	X	X
Aluminum foil 7429-90-5 (3-10)	X	X	X	-	X	X	X	X
1,1-Difluoroethylene polymer 24937-79-9 (3-8)	X	X	-	X	X	X	X	X

"-" Not listed

"X" Listed

Chemical safety assessment: No information available

16. OTHER INFORMATION

This Safety Data Sheet complies with the requirements of Regulation (EC) No. 1907/2006

Key to abbreviations and acronyms

TWA	Time Weighted Average
STEL	Short Term Exposure Limit
Ceiling	Maximum Limit Value
TSCA	Toxic Substances Control Act; Section 8(b) Inventory (U.S.)
DSL/NDL	Domestic Substances List/Non-Domestic Substances List (Canada)
EINECS/ELINCS	European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	Existing and New Chemical Substances (Japan)
IECSC	Inventory of Existing Chemical Substances (China)
KECL	Existing and Evaluated Chemical Substances (Korea)
PICCS	Philippines Inventory of Chemicals And Chemical Substances
AICS	Australian Inventory of Chemical Substances

Full text of H-Statements referenced in Section 3: Not classified

Full text of R-phrases referenced in Sections 2, 3

R15: Contact with water liberates extremely flammable gases

R11: Highly flammable

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Disclaimer

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