



## 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 <sup>3</sup>	STEL 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	-	TWA 2.5 mg/m <sup>3</sup>	-
Phosphate (1-) hexafluoro-lithium (CAS 21324-40-3)	2.5 mg/m <sup>3</sup>	-	-	TWA 2.5 mg/m <sup>3</sup>	-
Copper (CAS 7440-50-8)	1 mg/m <sup>3</sup> 0.2 mg/m <sup>3</sup>	STEL 4 mg/m <sup>3</sup> STEL 0.4 mg/m <sup>3</sup> TWA 1 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup>	-	TWA 1.0 mg/m <sup>3</sup> TWA 0.1 mg/m <sup>3</sup>	-
Aluminum foil (CAS 7429-90-5)	10 mg/m <sup>3</sup> 5 mg/m <sup>3</sup>	STEL 20 mg/m <sup>3</sup> TWA 10 mg/m <sup>3</sup>	-	TWA 5 mg/m <sup>3</sup> TWA 2 mg/m <sup>3</sup>	-
Chemical name	Latvia	France	Finland	Germany	Italy
Aluminum foil (CAS 7429-90-5)	TWA 2 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	TWA 1.5 mg/m <sup>3</sup>	TWA 4 mg/m <sup>3</sup> TWA 1.5 mg/m <sup>3</sup>	-
Chemical name	Poland	Portugal	Spain	Switzerland	Netherlands
Aluminum foil (CAS 7429-90-5)	TWA 2.5 mg/m <sup>3</sup> TWA 1.2 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup>	TWA 3 mg/m <sup>3</sup>	TWA 1.05 mg/m <sup>3</sup>

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

<b>Appearance</b>	Solid	<b>Color</b>	No information available
<b>Odor</b>	Odorless	<b>Odor threshold</b>	No information available
<b>pH</b>	No information available	<b>Melting point/freezing point</b>	No information available
<b>Boiling point/boiling range</b>	No information available	<b>Flash point</b>	No information available
<b>Evaporation rate</b>	No information available	<b>Flammability (solid, gas)</b>	No information available
<b>Flammability limit in air</b>	No information available	<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available	<b>Density</b>	No information available
<b>Relative density</b>	No information available	<b>Bulk density</b>	No information available
<b>Specific gravity</b>	No information available	<b>Water solubility</b>	No information available
<b>Partition coefficient</b>	No information available	<b>Auto-ignition temp</b>	No information available
<b>Decomposition temp.</b>	No information available	<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available	<b>Explosive properties</b>	Not an explosive
<b>Oxidizing properties</b>	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 54<sup>th</sup> 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

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

**Issue Date:** 02/20/2015

**Revision Date:** 03/30/2015

**Revision Note:** New format

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.