SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) No 1907/2006 (REACH)
AS MODIFIED BY REGULATION (EU) 2020/878

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

1.1. Product identifier

Product name: **PACK BATTERY 150**

Reference: 57270

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

1.2.1. Relevant identified uses

Lithium-ion battery

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier name: DongGuan PELLENC Electrical & Mechanical Co., Ltd. **Address:** Bld 7 Small Scl. Park Northern Area, Songshan Lake Dongguan City 523808, CHINE. **Phone number:** 0086 769 22899000 **Fax number:** 0086 769 2289001 **Email:** quality@pellenc-china.com	**Europe Contact:** PELLENC Address: Quartier Notre Dame, Route de Cavaillon, 84122 PERTUIS Cedex – FRANCE. **Phone number:** +33 4 90 09 47 00 (QHSE) **Fax number:** +33 4 90 09 64 09 **Email:** qse@pellenc.com

1.4. Emergency telephone number

+ 44 (0)1865 407333

SECTION 2: Hazards identification

2.1. Classification of the substance or the mixture

This product is an article according to REACH regulation. As this product is a sealed battery, the form supplied is not hazardous.

Classification according to Regulation (EC) No 1272/2008 [CLP]:

The product is not classified according to CLP regulation.

Full text of H-phrases: see Section 16.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

. Hazards Pictograms (CLP): None.

. Signal word (CLP): None.

. Hazardous components: None.

. Hazards statements: None.

. Precautionary statement (CLP) – Prevention: P102 - Keep out of reach of children.

. Precautionary statement (CLP) – Intervention: None.

. Precautionary statement (CLP) – Disposal: P501– Dispose of contents/container according to local regulation.

2.3. Other hazards

No additional information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixture

. Battery Composition

Name	Product identifier	% (Weight)	Classification according to Regulation (EC) No 1272/2008 [CLP]
Lithium Nickel Cobalt Aluminium Oxide	CAS : 177997-13-6 CE : 700-042-6 REACH number : 01-2119428097-38-xxxx	20 - 31	Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Resp. Sens. 1, H334 Carc. 1A, H350i Repr. 1B, H360 STOT RE1, H372 Aquatic Chronic. 3, H412
Carbon	CAS : 7782-42-5 CE : 231-955-3 REACH number : 01-2119486977-12-xxxx	10 – 21	
Iron	CAS : 7439-89-6 CE : 231-096-4 REACH number : 01-2119462838-24-xxxx	6 - 22	
Electrolyte	/	5 – 20	
Aluminium	CAS : 7429-90-5 CE : 231-072-3 REACH number : 01-2119529243-45-xxxx	1 – 7	
Copper	CAS : 7440-50-8 CE : 231-159-6 REACH number : 01-2119480154-42-xxxx	1 – 7	

. Information on ingredients

Full text of H-phrases: see Section 16.

RUBRIQUE 4: First aid measures

4.1. Description of first aid measures

. First aid measures general:

NEVER induce swallowing by an unconscious person.

. First aid measures after inhalation:

Assure fresh air breathing. Allow the victim to rest. Call a doctor immediately (show the label if possible).

. First aid measures after skin contact:

Remove contaminated clothing. Rinse skin with water / shower. If skin irritation occurs: Get medical attention.

. First aid measures after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

. First aid measures after ingestion:

Rinse mouth. Do NOT induce vomiting. Get medical advice/attention.

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

. Symptoms/injuries after skin contact: None.

. Symptoms/injuries after eye contact: None.

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

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

. Suitable extinguishing media: Dried powder. Carbon Dioxyde

. Unsuitable extinguishing media: No additional information available.

5.2. Special hazards arising from the substance or mixture

. Fire hazard: Battery may burst and release hazardous decomposition products.

Lithium-ion batteries contain flammable electrolyte that may vent, ignite and produce sparks when subjected to high temperatures (>150°C (302°F)) when damaged. They may burn rapidly with a flare-burning effect and may ignite other batteries.

. Explosion hazard: No additional information available.

5.3. Advice for firefighters

. Firefighting instructions: No additional information available.

. Protection during firefighting: Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Remove unnecessary staff. Avoid any contact with the skin and eyes.

6.1.2. For emergency responders

. Protective equipment: Wear protective equipment.

. Emergency procedures: Ensure adequate ventilation.

6.2. Environmental precautions

If there is a leak if a battery is open or damaged: Avoid penetration in drinking water pipes. Do not allow material to be release to the environment. Contain with suitable barriers sand or earth. Avoid to release into the environment.

6.3. Methods and material for containment and cleaning up

Cleaning processes: If there is a leak if a battery is open or damaged: Remove ignition sources and spill the leaks with non-combustible absorbent materials such as sand, vermiculite. Clean the area with water and detergent. Collect rinsing water. drums for waste disposal.

Dispose of the damaged battery and cleaning materials in a tightly closed and properly labeled container.

6.4. References to other sections

See Section 7. Handling and storage

See Section 8. Exposure controls/personal protection

See Section 13. Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

. Precautions for safe handling:

Do not eat or drink in the work area.

Do not disassemble, crush or expose to fire or high temperatures, the battery may explode or cause burns.

Do not short or install with incorrect polarity.

Ground containers when transferring liquid to prevent static accumulation and discharge.

. Hygiene measures: Wash hands with soap and water before eating or drinking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, dry, well-ventilated place. Keep away from heat, direct sunlight. Store in the original packaging

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lithium Cobalt Oxide (CAS: 12190-79-3)	
TLV (USA)	0.02 mg/m³
MAK (Germany)	0.1 mg/m³

8.2. Exposure controls

Personal protective Equipment: Avoid unnecessary exposure.

. Hand protection:

Protective gloves when the battery is damaged.

. Eye protection:

Safety goggles with side shields when the battery is damaged.

. Skin and body protection: Wear suitable protective clothing when the battery is damaged.

. Respiratory protection: If exposure limits are exceeded or irritation occurs, wear an appropriate respiratory equipment.

. Other information: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

. Physical state: Solid, almost cuboid.
. Colour: Orange.
. Odour: Odorless.
. pH: Not applicable.
. Flash point: Not applicable.
. Boiling point: Not applicable.
. Vapour pressure: Not applicable.
. Inflammability (solid, gas): Not applicable.
. Relative density: Not applicable.
. Solubility: Not applicable.
. Viscosity, cinematic (20°C) : Not applicable.
. Oxidising properties: Not applicable unless exposed to electrolyte.
. Explosive properties: Not applicable unless exposed to electrolyte.

9.2. Other information

Electrical properties
. Voltage: 43.2 V
. Cell voltage: 3.6 V
. Electric capacity: 3.45 Ah
. Watt-hour: 150 Wh

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under the recommended handling and storage conditions.

10.2. Chemical stability

Stable under the recommended handling and storage conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known at the conditions recommended for use and storage.

10.4. Conditions to avoid

Flames, sparks and other source of ignition.

10.5. Incompatible materials

Oxidizing agents, acid, base.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, lithium oxide fumes.

SECTION 11: Toxicological information

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

. Acute toxicity: Not available.
. Skin corrosion/irritation: No additional information available.
. Serious eye damage/irritation: No additional information available.
. Respiratory or skin sensitisation: No additional information available.
. Germ cell mutagenicity: No additional information available.
. Carcinogenicity: No additional information available.
. Reproductive toxicity: No additional information available.
. Specific target organ toxicity (single exposure): No additional information available.
. Specific target organ toxicity (repeated exposure): No additional information available.
. Aspiration hazard: No additional information available.

11.2. Information on other hazards

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

12.1.1. Information on mixture

No additional information available.

12.1.2. Information on substances

No additional information available.

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT et VPVB assessment

No additional information available.

12.6. Endocrine disrupting properties

No additional information available.

12.7. Other adverse effects

No additional information available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

. Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

. Ecology – waste materials: Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN.

14.1. UN number or ID number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

	ADR	IMDG	IATA
UN number	3480	3480	3480
UN proper shipping name	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES	LITHIUM ION BATTERIES
Class	9	9	9
Packing group	N/A (Transport Category: 2)	/	/

14.5. Environmental hazards

. Dangerous for the environment: No

. Marine pollutant: No

. Other information: No additional information available.

14.6. Special precautions for user

Refer to the transport regulations in force for the chosen mode of transport and the countries involved.

. Overland transport

. Limited quantities (LQ): 0

. Excepted quantities: E0

. Tunnel restriction code (ADR): E

14.7. Maritime transport in bulk according to IMO instruments

No additional information available.

SECTION 15: Regulatory information

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

15.1.1. EU Regulation

· REACH Regulation 1907/2006 - Annex XIV: This product contains no relevant substances.

· REACH Regulation 1907/2006 - Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances and preparations and certain dangerous articles: This product contains no relevant substances.

15.1.2. National Regulations

No additional information available.

15.2. Chemical safety assessment

No additional information available.

SECTION 16: Other information

. Data sources: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

. Other information: None.

. Full text of H and EUH phrases:

Acute Tox.2	Acute inhalation Toxicity, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 1A	Cancerogenicity, Category 1A
Eye Dam. 1	Serious eye damage/eye irritation, Hazard Category 1
Repr. 1B	Reproductive toxicity, Hazard Category 1B
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Hazard Category 1B
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity – Repeated Hazard, Category 1
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350	May cause cancer
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

Acronyms and abbreviations:

ADR: Agreement concerning the international carriage of Dangerous goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

SDS EU (REACH Annex II)

TLV: Threshold Limit Value

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product and shall not establish a legally valid contractual relationship.