



## Section 1. Product and Company Identification.

**1.1 Model Number;** CP6018V v1  
**1.2 Description;** Cordless Lithium-ion Hammer Drill/Driver 18V Super Torque 1hr Charge - 2 Batteries  
18 Volt. 1.5 Ah. 380 grams..

**1.3 Manufacturer;**

Sealey Group.  
Kempson Way,  
Bury St. Edmunds,  
Suffolk.  
IP32 7AR

**1.4 Emergency telephone number;** 44 (0) 1284 757 500 (Office Hours)

**Date of source compilation;** 30 July 2013

## Section 2. Hazards Identification.

Battery is hermetically sealed and does not present a hazard under normal conditions of use.

**Invasion routes;** eyes, skin contact, ingestion.

**Health Hazard;** Harmful if swallowed. Safe under normal conditions of use. Contents are non-reactive when the battery integrity and seals remain intact. DO NOT OPEN or DISMANTLE. DO NOT EXPOSE TO FIRE or NAKED FLAME. Burn / Explosion / Fire risks; do not mix with varying chemistries, sizes & types of battery.

Do not crush or incinerate.

**Environmental hazard;** the internal electrolyte may cause adverse environmental impact.

**Danger of fire and explosion;** risk is increased by high temperature and short circuit.



### Section 3. Substances.

| 3.1 Chemical Name (substance) | 3.1 CAS No.  | 3.2 Concentration | Classification                             |                   |
|-------------------------------|--------------|-------------------|--|-------------------|
|                               |              |                   | Hazard Class & Category Code               | Hazard Statements |
| Metal Oxide (proprietary)     | -            | 20-50%            | -  | -                 |
| Carbon (proprietary)          | 7440-44-0    | 10-30%            | -  | -                 |
| Electrolyte (proprietary)     | -            | 10-20%            | -  | -                 |
| Aluminium Foil                | 7429-90-5    | 2-10%             | Water-react. 2<br>Pyr. Sol. 1<br>F; R15-17 | H261<br>H250      |
| Copper Foil                   | 7440-50-8    | 2-10%             | -  | -                 |
| Polyvinylidene (PVDF)         | 74937-79-9   | <5%               | -  | -                 |
| Aluminium and inert materials | Not relevant | Remainder         | -  | -                 |

For full text of Phrases and Statements, see Section 16.

### Section 4. First Aid Measures.

Lithium Batteries do not pose a risk to eyes or skin under normal circumstances.  
In the case of contact with internal substances;

#### 4.1 Description of first aid measures

##### Inhalation

If breathing difficulties develop, remove the person to fresh air.

Loosen close fitting clothing.

Ensure that person is warm.

If mouth to mouth resuscitation is necessary, the person conducting this must takes steps to reduce the risk of contamination from toxic / corrosive substances that may be present.

##### Skin Contact

Remove contaminated clothing.

Flush affected area(s) with copious amounts of water for at least 15 minutes.

Get medical attention.

##### Eye Contact

Irrigate eyes with water for at least 15 minutes while raising eyelid(s).

Get medical attention.

##### Ingestion

If swallowed, do not induce vomiting. Give large amounts of water but *do not* do this if casualty is unconscious.

Protection of First Aiders:

Use personal protective equipment.

Avoid contact with skin, eyes and clothing.

#### 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

No information available.



## Section 5. Fire Fighting Measures.

### Recommended practice;

Always ensure that Personal Protection Equipment (PPE) is used.

If a battery becomes hot, immediately remove it from flammable materials and place on a non-combustible surface.

If possible, place a disintegrating device outdoors and allow it to burn out.

**Fire condition; NB; ensure that electrical devices are turned off. Prevent electric shock risk.**

If any batteries are burning, water may not extinguish them, but will cool the adjacent batteries and control the spread of fire.

### 5.1. Extinguishing media

#### Extinguishers;

Only use Graphite based CO<sub>2</sub> (Carbon dioxide), Dry Powder or Foam.

Copper powder fire extinguishers, sand, dry ground dolomite or soda ash may also be used. These materials act as smothering agents.

If possible, use a **LITH-X (powdered graphite)** extinguisher on small fires. This material acts as a smothering agent. *A sodium chloride powder extinguisher IS NOT suitable for use on Lithium Batteries.*

It may not be possible to extinguish burning lithium batteries. Burning batteries will burn themselves out.

Do not use water with **LITH-X (powdered graphite)**.

- If a LITH-X (powdered graphite) extinguisher is not available;

Use copious amounts of water in a fine spray to swamp a fire.

Continue to use copious amounts of water until the fire is extinguished and the batteries are cooled.

NB: **Lithium reacts with water to form Hydrogen.** The fire will not be extinguished immediately.

Be aware of the increased risk of explosion.

NB; fire-fighting water runoff may be corrosive / toxic and may cause adverse environmental impact.

### 5.2. Special hazards arising from the substance or mixture

**Hazard characteristics;** thermal decomposition can lead to the release of toxic fumes.

**Hazardous combustion products;** carbon dioxide, carbon monoxide, lithium oxide fumes.

### 5.3. Advice for fire-fighters

Fragments may be ejected from a fire.

Fire Fighters should wear self-contained breathing apparatus and appropriate Personal Protective Equipment.



## Section 6. Accidental Release Measures.

### 6.1. Personal precautions, protective equipment and emergency procedures

In the event of battery rupture and leakage,

- ventilate the area.
- wear appropriate protective clothing (see Section 7) to prevent eye and skin contact and to prevent inhalation of vapours or fumes.
- remove sources of ignition.

### 6.2. Environmental precautions

No information available.

### 6.3. Methods and material for containment and cleaning up

Absorb released materials with inert absorbent (dry sand or soil).

Collect released materials into sealed plastic bag or container.

Prevent material from contaminating soil or entering sewers or waterways.

Do not dispose of released materials with domestic waste

Do not allow product to enter ground water, water course or sewerage system.

Dispose of released materials in accordance with local authority regulations.

### 6.4. Reference to other sections

See Section 7 for information on Safe Handling

See Section 8 for information of Personal Protective Equipment.

See Section 13 for information on disposal.

## Section 7. Handling and Storage.

### 7.1. Precautions for safe handling

Never dismantle or modify a battery.

Do not short circuit a battery. A short circuit causes heating and can lead to ignition of surrounding materials.

Physical contact with a short-circuited battery can cause skin burn.

When charging the battery, use dedicated chargers and follow the specified conditions.

Improperly charging a battery may cause the battery to combust.

Lithium batteries for transport by air in a state of charge must have no more than 30% charge of their rated capacity.

### 7.2. Conditions for safe storage, including any incompatibilities

Always store batteries in an appropriate container to prevent contact with conductive materials.

Do not allow contact with water.

Store in original container. Keep container tightly closed.

Store in a dry, cool place.

Store at 20 °C (68°F); room temperature

Store away from ignition sources, heat, and incompatible materials.

### 7.3. Specific end use(s)

Intended for use as the battery stated in Description stated in 1.2, Model Number identified in 1.1.



## Section 8. Exposure Controls/Personal Protection.

### 8.1. Control parameters

In the event of battery rupture and leakage:

Ventilate the area.

Remove sources of ignition.

### 8.2. Exposure controls

The use of Personal Protective Equipment (PPE) is not necessary under conditions of normal use.

If handling a leaking or ruptured battery, ensure that the following Personal Protective Equipment (PPE) is used.

#### Eye/Face Protection

Chemical grade full face shield

#### Skin Protection

Acid resistant, natural rubber or neoprene gloves.

Protective rubber apron

Appropriate Personal Protection with long sleeves and long trousers.

#### Respiratory Protection

Acid gas filter mask or self-contained breathing apparatus.

## Section 9. Physical and Chemical Properties.

### 9.1. Information on basic physical and chemical properties

**The following information is not a technical specification or sales specification.**

|   |                                      |
|---|--------------------------------------|
| (a) Appearance:                                   | Solid.                               |
| (b) Odour:  | Not relevant to product as supplied. |
| (c) Odour threshold;                              | Not relevant to product as supplied. |
| (d) pH:   | Not relevant to product as supplied. |
| (e) Melting point/freezing point;                 | Not relevant to product as supplied. |
| (f) Initial boiling point and boiling range;      | Not relevant to product as supplied. |
| (g) Flash point;                                  | No information available.            |
| (h) Evaporation rate;                             | Not relevant to product as supplied. |
| (i) Flammability (solid, gas);                    | No information available.            |
| (j) Upper/lower flammability or explosive limits; | No information available.            |
| (k) Vapour pressure;                              | Not relevant.                        |
| (l) Vapour density;                               | Not relevant to product as supplied. |
| (m) Relative density;                             | Not relevant.                        |
| (n) Solubility(ies);                              | Not relevant.                        |
| (o) Partition coefficient: n-octanol/water;       | Not relevant to product as supplied. |
| (p) Auto-ignition temperature;                    | No information available.            |
| (q) Decomposition temperature;                    | Not relevant to product as supplied. |
| (r) Viscosity;                                    | Not relevant.                        |
| (s) Explosive properties;                         | No information available.            |
| (t) Oxidising properties.                         | Not relevant to product as supplied  |

### 9.2 Other information



## Section 10. Stability and Reactivity.

|   |   |
|---|---|
| <b>10.1.</b> Reactivity                         | None  |
| <b>10.2.</b> Chemical stability                 | No information available  |
| <b>10.3.</b> Possibility of hazardous reactions | No information available  |
| <b>10.4.</b> Conditions to avoid                | Avoid exposure to heat and open flame.<br>Do not puncture, crush or incinerate.   |
| <b>10.5.</b> Incompatible materials             | None during normal operations.<br>Avoid exposure to heat, open flame and corrosives                                     |
| <b>10.6.</b> Hazardous decomposition products   | None during normal operating conditions.<br>If cells are opened, hydrogen fluoride and carbon monoxide may be released. |

## Section 11. Toxicological Information.

### 11.1. Information on toxicological effects

This product does not produce toxicological properties during routine handling and use.

#### Potential health risks;

**Eye;** Contact with battery contents may cause severe irritation and burns. Eye damage is possible.

**Skin;** Contact with battery contents may cause severe irritation and burns.

Absorption through the skin will cause localized inflammation.

**Ingestion;** may cause severe and permanent damage to the digestive tract. May cause circulatory system failure.

Contents of an open battery can cause serious chemical burns to the mouth, oesophagus and gastrointestinal tract.

**Inhalation;** Inhalation of vapours or fumes released due to heat or leaking batteries may cause respiratory irritation. Irritation may lead to chemical pneumonitis.

Inhalation can produce chronic productive cough and shortness of breath.

## Section 12. Ecological Information.

When properly used and disposed of correctly, the battery does not present environmental hazard.  
Do not release internal components into water ways, wastewater or ground water.

|   |                           |
|---|---------------------------|
| <b>12.1.</b> Toxicity                           | No information available. |
| <b>12.2.</b> Persistence and degradability      | No information available. |
| <b>12.3.</b> Bioaccumulative potential          | No information available. |
| <b>12.4.</b> Mobility in soil                   | No information available. |
| <b>12.5.</b> Results of PBT and vPvB assessment | No information available. |
| <b>12.6.</b> Other adverse effects              | No information available. |

## Section 13. Disposal Considerations.

### 13.1. Waste treatment methods

Disposal of the battery must be in accordance with local authority regulation requirements for hazardous waste treatment and hazardous waste transportation.

The battery should be completely discharged prior to disposal and the terminals taped or capped to prevent short circuit.

Do not dispose of batteries at landfill sites.

Do not incinerate batteries.



**Section 14. Transport Information.**

ADR. International Carriage of Dangerous Goods by Road.

|   |   |
|---|---|
| <b>14.1.</b> UN number                    | UN 3481   |
| <b>14.2.</b> Name and Description         | Lithium ion batteries packed with equipment     |
|   | Label 9   |
|   | Special Provisions 188 230 348 376 377 360 636  |
|   | Limited Quantities 0                            |
|   | Excepted Quantities E0                          |
|   | Packing Instructions P903 P908 P909 LP903 LP904 |
|   | Special Packaging Provisions -                  |
| <b>14.3.</b> Transport hazard class(es)   | Class 9   |
|   | Classification Code M4                          |
|   | Transport Category 2                            |
|   | Tunnel restriction code E                       |
| <b>14.4.</b> Packing group                | P903 P908 P909 LP903 LP904                      |
| <b>14.5.</b> Environmental hazards        | Does not present an environmental hazard.       |
| <b>14.6.</b> Special precautions for user | No special precautions necessary.               |

IATA. International Air Transport Association.

|  |   |
|--|---|
| <b>14.1.</b> UN number                           | UN 3481   |
| <b>14.2.</b> UN Proper Shipping Name/Description | Lithium ion batteries packed with equipment     |
|  | Hazard Label. Miscellaneous                     |
|  | Excepted Quantity E0                            |
|  | Packaging Instructions Passenger 966 Section II |
|  | Ltd Qty Forbidden                               |
|  | Cargo 966 Section II                            |
|  | ERG Code 9F                                     |
|  | Special Provisions A88 A99 A154 A164            |
|  | A181 A185                                       |
| <b>14.3.</b> Transport hazard class(es)          | Class or Division 9                             |
| <b>14.4.</b> Packing group                       | -   |
| <b>14.5.</b> Environmental hazards               | Does not present an environmental hazard.       |
| <b>14.6.</b> Special precautions for user        | No special precautions necessary.               |

IMDG. International Maritime Dangerous Goods.

|   |  |
|---|--|
| <b>14.1.</b> UN number                          | UN 3481  |
| <b>14.2.</b> UN proper shipping name            | Lithium ion batteries packed with equipment      |
|   | Special Provisions 188 230 348 360 957           |
|   | Limited Quantities 0                             |
|   | Excepted Quantities E0                           |
|   | Packaging Instructions P903                      |
|   | Packing Provisions -                             |
| <b>14.3.</b> Transport hazard class(es)         | Class or Division 9                              |
|   | Subsidiary Risk(s) -                             |
| <b>14.4.</b> Packing group                      | II   |
| <b>14.5.</b> Environmental hazards              | Does not present an environmental hazard.        |
| <b>14.6.</b> Special precautions for user       | No special precautions necessary.                |
| <b>14.7.</b> Transport in bulk – Maritime only. | Bulk transport is not applicable to this product |



## Section 15. Regulatory Information.

**15.1.** Safety, health and environmental regulations/legislation specific for the substance or mixture  
No information available.

**15.2.** Chemical safety assessment  
No information available.

## Section 16. Additional Information.

Full text of Phrases and Statements used in Section 3;

H261 In contact with water releases flammable gas.

H250 Catches fire spontaneously if exposed to air.

R15 – 17 Contact with water liberates extremely flammable gases - Spontaneously flammable in air.

The above information is believed to be accurate and represents the best information currently available.

No warranty is expressed or implied by the above information.

We assume no liability resulting from use of the above information.

The end user should conduct their own investigations to determine the suitability of the above information for their particular purpose.

| Issue level | Date     | Revisions    |
|-------------|----------|--------------|
| 1           | 16/05/16 | First issue. |
|             |          |              |
|             |          |              |
|             |          |              |

End of Safety Data Sheet.