



Product #: PWR5400

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: HazCom 2012

LITHIUM ION BATTERY for AEGIS® RECHARGEABLE MINI ROTARY TOOL

Issuing Date 20-Oct-2022

Revision date 20-Oct-2022

Revision Number 1

1. Identification

Product identifier

Product Name AEGIS® LITHIUM ION BATTERY
For
RECHARGEABLE MINI ROTARY TOOL

Other means of identification PWR5400
Lithium Ion Battery Cell 600mAh (2.16Wh) 3.6V, battery weight 16.9 g

Restrictions on use

Do not dismantle, open or shred Li-ion Battery. Exposure to the ingredients contained within or their combustion products could be harmful.

Details of the supplier of the safety data sheet

Manufacturer

AEGIS Tools International
908 West Main St.
Laurel, MT 59044
Tel: 800-548-7341
Fax: 406-628-8354

E-mail address rachaelm@wpg.com

Emergency telephone number 24 Hour Emergency

Phone Number Chemtel 1-800-255-3925

2. Hazard(s) identification

Emergency Overview		
Appearance Silvery white	Physical state Solid	Odor None

Preparation hazards and classification: Not dangerous with normal use. Do not dismantle, open or shred Li-ion Battery. Exposure to the ingredients contained within or their combustion products could be harmful.

Signal word No signal word is used

Primary Route(s) of Exposure:

These chemicals are contained in a sealed stainless steel enclosure. Risk of exposure occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, exposure to the electrolyte solution contained within can occur by inhalation or ingestion. Eye contact and skin contact.

AEGIS[®] Rechargeable Mini Rotary Tool

Issue Date 20-Oct-2022

Revision Date 20-Oct-2022

Version 1

Potential Health Effects

Acute: (short term): see Section 8 for exposure controls in the event that this battery has been ruptured. The electrolyte solution contained within the battery would be corrosive and can cause burns.

Eye: Contact between the battery and the eye will not cause any harm. Eye contact with the contents of an open battery can cause severe irritation or burns to the eye.

Skin: Contact between the battery and skin will not cause any harm. Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

Ingestion: Swallowing of materials from a sealed battery is not an expected route of exposure. Swallowing the contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract.

Skin: Contact between the battery and skin will not cause any harm. Skin contact with contents of an open battery can cause severe irritation or burns to the skin.

Inhalation: Inhalation of materials from a sealed battery is not an expected route of exposure. Vapors or mists from a ruptured battery may cause respiratory irritation.

Chronic (long term): see Section 11 for additional toxicological data

Medical Conditions Aggravated by Exposure: Not Applicable

Reported as carcinogen: Not Applicable

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Li-Polymer Battery is a mixture.

Component	CAS No	Composition %
Lithium Cobalt Oxide	12190-79-3	15 - 40
Graphite	7782-42-5	10 - 30
Phosphae(1-), Hexafluoro-, lithium	21324-40-3	10 - 30
Copper	7440-50-8	7 - 13
Aluminum foil	7429-90-5	5 - 10
Nickel	7440-02-0	1 - 5
PVC(Chloroethylene, polymer)	9002-86-2	1 - 5

Labeling according to EC directives.
No symbol and risk phrase are required.

4. First-aid measures

Description of first aid measures for materials leaking from battery

Ingestion

If ingestion of contents of an open battery occurs, never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have the victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 60 to 240ml (2-8oz) of water. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Have victim rinse mouth with water again. Quickly transport victim to an emergency care facility.

Inhalation

If contents of an opened battery are inhaled, remove source of contamination or move victim to fresh air. Obtain medical advice.

Skin contact

If skin contact with contents of an open battery occurs, as quickly as possible remove contaminated clothing, shoes and leather goods. Immediately flush with lukewarm, gently flowing water for at least 30 minutes. If irritation or pain persists, seek medical attention. Completely decontaminate clothing, shoes and leather goods before reuse or discard.

Eye contact

If eye contact with contents of an open battery occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes while holding the eyelids open. Neutral saline solution may be used as soon as it is available. If necessary, continue flushing during transport to emergency care facility. Take care not to rinse contaminated water into the unaffected eye or onto face. Quickly transport victim to an emergency care facility.

5. Fire-fighting measures**Flammable Properties:**

In the event that this battery has been ruptured, the electrolyte solution contained within the battery would be flammable. Like any sealed container, battery cells may rupture when exposed to excessive heat: this could result in the release of flammable or corrosive materials.

Suitable Extinguishing Media

Use extinguishing media suitable to the materials that are burning.

Unsuitable extinguishing media

Not available

Specific hazards arising from the chemical

Fires involving Li-ion Batteries can be controlled with water. When water is used, however, hydrogen gas may evolve. In a confined space, hydrogen gas can form an explosive mixture. In this situation, smothering agents are recommended to extinguish the fire.

Explosion data

Sensitivity to mechanical impact: This may result in rupture in extreme cases.
Sensitivity to static discharge: None.

Special protective equipment and precautions for fire-fighters

As for any fire, evacuate the area and fight the fire from a safe distance. Fight fire from a protected location or safe distance. Use NIOSH/MSHA approved full-face self-contained breathing apparatus (SCBA) with full protective gear.

6. Accidental release measures**Personal precautions, protective equipment and emergency procedures****Personal precautions**

Restrict access to area until completion of clean-up. Do not touch the spilled material. Wear adequate personal protective equipment as indicated in Section 8.

Environmental precautions

Prevent material from contaminating soil and from entering sewers or waterways.

Methods and material for containment and cleaning up**Methods for containment**

Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.

Methods for cleaning up

Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable water container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub area with detergent and water. Collect all contaminated wash water for proper disposal.

7. Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Don't handle Li-ion Battery with metal work. Do not open, disassemble, crush or burn battery. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

8. Exposure controls/personal protection

Appropriate engineering controls

Engineering controls

Use local exhaust ventilation or other engineering controls to control sources of dust, mist, fumes and vapor. Keep away from heat and open flame. Store in a cool, dry place.

Individual protection measures, such as personal protective equipment

General hygiene considerations

Do not eat, drink or smoke in work area. Maintain good housekeeping.

Hand protection

Wear neoprene, nitrile, or natural rubber gloves if handling an open or leaking battery.

Eye/face protection

Not necessary under normal conditions. Wear safety glasses if handling an open or leaking battery. Have eye wash fountain readily available in the immediate work station.

Skin and body protection

Not necessary under normal condition. Wear neoprene or nitrile rubber gloves if handling an open or leaking battery.

Respiratory protection

Not necessary under normal conditions.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Solid
Color:	Silvery White
Odor:	Monotony

<u>Property</u>	<u>Values</u>
pH:	No data available
Melting point / freezing point:	No data available
Boiling point / boiling range:	No data available
Flash point:	No data available
Upper/Lower flammability or explosive limits:	No data available
Vapor pressure:	No data available
Vapor density: (Air=1)	No data available
Density/relative density:	No data available
Water solubility:	Insoluble
Partition coefficient:	No data available

Autoignition temperature:	130°C / 266 °F
Decomposition temperature:	No data available
Odor Threshold:	No data available
Evaporation Rate	No data available
Flammability (soil, gas)	No data available
Viscosity:	No data available

10. Stability and reactivity

Stability

The product is stable under normal conditions.

Possibility of hazardous reactions

No information available.

Conditions to avoid

Do not subject Li-ion Battery to mechanical shock. Vibration encountered during transportation does not cause leakage, fire or explosion. Do not disassemble, crush, short or install with incorrect polarity. Avoid mechanical or electrical abuse.

Incompatible materials

No information available.

Hazardous decomposition products

This material may release toxic fumes if burned or exposed to fire.

11. Toxicological information

Information on likely routes of exposure

Irritation:

Risk of irritation occurs only if the cell is mechanically, thermally or electrically abused to the point of compromising the enclosure. If this occurs, irritation to the skin, eyes and respiratory tract may occur.

Sensitization:	Not Available
Neurological Effects:	Not Available
Teratogenicity:	Not Available
Reproductive Toxicity:	Not Available
Mutagenicity (Genetic Effects):	Not Available
Toxicologically Synergistic Materials:	Not Available

12. Ecological information

Environmental Toxicity

Water hazard class 1 (Self-assessment): Slightly.

13. Disposal considerations

Recommendations

Product disposal recommendation: Observe local, state and federal laws and regulations. Packaging disposal recommendation: Be aware discarded batteries may cause fire, tape the battery terminals to insulate them. Don't disassemble the battery. Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local, state and federal laws and regulations.

US EPA Waste Number: -

AEGIS[®] Rechargeable Mini Rotary Tool

Issue Date 20-Oct-2022

Revision Date 20-Oct-2022

Version 1

14. Transport information

Concorde's Li-ion Battery comply with the UN Recommendations on the Transport of Dangerous Goods; IATA Dangerous Goods regulations, and applicable U.S. DOT regulations for the safe transport of Li-ion Battery. The Li-ion Batteries *have been tested under provisions of the UN Manual of Tests and Criteria, Part III, sub-section 38.3 and are classified as non-dangerous goods as per 548th IATA DGR 2017.*

Lithium ion cell/battery

Lithium ion cell/battery = UN3480 with Section II of PI965

Lithium ion cell/battery when packed with equipment = UN3481 Section II of PI966

Lithium ion cell/battery when contained in equipment = UN3481 Section II of PI967

Lithium ion:

Content in Watt-hour (Wh) AND

Lithium ion cell = less than 20Wh per cell

Lithium ion battery = less than 100Wh per battery

Transport fashion: Land transport ADR/RID (cross-border)

Sea Transport IMDG

Air Transport ICAO-TI and IATA-DGR

15. Regulatory information

OSHA Hazard communication standard (29 CFR 1910.12000)

Hazardous	Non-Hazardous
-	V
-----	-----

16. Other information

<u>NFPA</u>	Health hazards 0	Flammability 0	Instability 0	Special hazards –
<u>HMIS</u>	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X

Revision date 20-Oct-2022

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, AEGIS TOOLS INTERNATIONAL does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

End of Safety Data Sheet