

European Material Safety Data Sheet**ENGLISH**

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Product data	
Trade name:	STIHL AP 80 Battery Pack Lithium ion battery
Product number:	4850-400-6500
Manufacturer:	ANDREAS STIHL AG & Co. KG Badstraße 115 D – 71336 Waiblingen +49 7151 / 26-0 www.stihl.com
Intended use:	Rechargeable battery for electric power tools Only for use with STIHL cordless machines
Specifications:	<ul style="list-style-type: none">▪ Rated voltage: DC 36 V▪ Rated capacity: refer to product label▪ Rated energy: refer to product label▪ Use and storage temperature - 10 to + 50 °C▪ Weight: 1120 g
Device classification / legal basis	Within the territory of the EU, at a minimum, the battery is subject to the following EU directives / regulations in the respectively current version and the national regulations enacted in this regard: <ul style="list-style-type: none">○ Directive on General Product Safety 2001/95/EC○ Batteries and Accumulators Directive 2006/66/EC○ REACH Regulation (EC) No. 1907/2006 With regard to the obligations to provide information pursuant to Article 33 of the REACH regulation, please see www.stihl.com/reach .
Certificates / Markings / Standards	
CE marking	At present, the battery is not subject to any regulation that requires a CE marking.
Safety requirements	The battery was tested and certified in accordance with DIN EN 62133:2003-09 and DIN EN 61960:2012-04. The battery was successfully tested by the manufacturer in accordance with the provisions of the UN Manual of Tests and Criteria Part III, subsection 38.3. The design complies with the requirements of ADR Special Provision 230 and/or other traffic carriers' equivalent provisions.

Important safety information

WARNING:

- Do not open the battery, damage it or allow it to fall from a substantial height.
- Protect battery against short circuiting – danger of explosion!
- Protect battery against rain, do not immerse in liquids – danger of short-circuiting
- Protect the battery against direct sunlight when not in use.
- Protect the battery against fire and excessive heat.
- Do not incinerate the battery – danger of explosion!
- Do not charge or use damaged, defective or deformed batteries.
- Use the battery only with STIHL power tools and use only STIHL chargers to charge or discharge the battery. It must not be used for any other purposes on account of the high risk of injury.

Hazards

- Caustic liquid may escape from damaged batteries. Avoid contact.
- Contact can cause skin irritation, burns and chemical burns.
- If the liquid comes into contact with the eyes, seek medical attention.
- Avoid inhaling any vapors formed or released – caustic.

Measures

In the event of contact with released electrolyte or electrolyte vapors

- Eye contact: flush eyes for at least 15 minutes with plenty of clean water without rubbing eyes and consult a physician.
 - Skin contact: wash affected areas of skin with plenty of water and soap. If irritation persists, consult a physician.
 - Inhalation: provide fresh air or administer oxygen immediately and consult a physician.
 - Ingestion: if electrolyte has been ingested, consult a physician immediately.
- ⇒ Disposal: Wear safety goggles, lye-resistant gloves and, if necessary, solvent-resistant protective clothing. Wipe up with dry, absorbent textile and dispose of separately from other waste as hazardous waste at collection points for hazardous waste according to national regulations.
(disposal code EAK: 16 06 05 or 20 01 34).
- ⇒ In case of fire: Keep clear of vapors and gases generated; take wind direction into consideration. If possible without danger, remove batteries from the vicinity of the fire. In principle, cooling or extinguishing with water is possible, but should only be done by trained personnel with sufficiently large quantities of water. If the hazard situation is unclear, extinguish only with ABC powder extinguishers (Class D extinguishers for fires involving metals are especially suitable). Fire fighters should only approach the fire wearing protective clothing and self-contained breathing apparatus. Once the fire has been extinguished, as a rule, the area should be monitored (fire watch) and cleaned up by trained and appropriately equipped personnel. Fire residue should be contained and disposed of properly.
- ⇒ Information for physicians: Hazardous contents are: caustic alkaline electrolytes contained in cells (lithium salts in organic solvents) with lithium oxide, nickel oxide and cobalt/lithium manganese oxide cathodes, but no lithium metal or lithium alloys.

Storage

- Connect the battery to the machine only when it is going to be used; always remove the battery from the machine for transport and when it is not in use or, if using the battery belt, always disconnect the battery adapter from the machine.
- Relative humidity range: 45 to 85 %
- Optimum preservation of functionality: + 10 to + 20 °C in charge state 30 % (2 LEDs green)

Handling

Caution!

Improper handling can lead to an explosion or ignite a fire!

Store batteries out of reach of children.

Please contact a STIHL servicing dealer for maintenance or repair.

Note LEDs on battery:

- 4 red flashing for approx. 5 seconds: Battery defective; insert battery
- 1 green flashing: Battery discharged, charge battery
- 1 red steady on: Battery is too warm or too cold; allow to cool down or warm up, respectively (battery cannot be charged in this state)
- 3 red flashing: Device is defective, have it checked by a servicing dealer

Transport Road / Rail / Sea / Air (ADR/RID/ IMDG /IATA)

Transport always in accordance with dangerous goods regulations:

It is recommended that lithium batteries should not be fitted in machines during carriage (lithium ion batteries in equipment).

The batteries must always be protected against short circuiting during carriage. Special carriage requirements apply to the carriage of damaged or defective batteries. It is essential to contact the STIHL servicing dealer prior to carriage - risk of injuries! It is prohibited to carry defective or damaged batteries by air.

Road / Rail / Sea (tunnel code shown in brackets applies only to carriage by road)

Battery (alone)	UN 3480	Lithium ion batteries, 9, II, (E)
Battery (packed with machine)	UN 3481	Lithium ion batteries, packed with equipment, 9, II, (E)
Packaging order	P903	
Exemptions	E0	not possible
	LQ0	not possible

Air transport

Battery (alone)	UN 3480	Lithium ion batteries, 9, II
Battery (packed with machine)	UN 3481	Lithium ion batteries, packed with equipment, 9, II
Packaging order	P965 Part I (alone)	
	P966 Part I (packed with equipment)	
Exemptions	E0	not possible

Alternatively with exemption from other dangerous goods provisions

Road / Rail / Sea

Carriage in accordance with Special Provision SV 188

Air transport

Carriage in accordance with P965 Part II (alone)
P966 Part II (packed with equipment)

In addition to the provisions and exceptions listed here, individual national regulations as well as exceptions on the basis of national adoption of multilateral agreements may apply. These must be observed. Diese sind zu beachten.

Distributor take-back / disposal



- On the basis of the Battery Directive, the manufacturers take responsibility for financing collection, treatment and recycling of batteries used in devices. To this end, batteries must be handed over for disposal to the collection systems established for this under national law. Disposal of batteries together with household waste is prohibited, as is indicated by the crossed-through waste bin. Batteries must be collected separately according to type.

Return the battery free of charge to your STIHL servicing dealer for disposal or hand it over to an appropriate public collection point.

- IMPORTANT:**

Only batteries that have been discharged so that there is no voltage present at the external contacts can be returned. Batteries that are only partially discharged must be returned protected against short-circuiting (sturdy cardboard packaging, ideally: original box).

Miscellaneous

Independent laboratory tests have established that the battery cases do not contain any PAHs and that the electronic components comply with the RoHS standards (Directive 2011/65/EC of 8 June 2011 and Directive 2002/95/EC of 27 January 2003) (no Hg, Cd, Pb, Cr, PBB or PBDE).

The information in this data sheet does not constitute guaranteed product properties, but instead is furnished solely as a courtesy to the user. It is believed to be accurate on the basis of the currently valid regulations. This data sheet was produced in cooperation with the firm Umweltkanzlei Dr. Rhein, Sarstedt.

www.umweltkanzlei.de

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