



1. Product- and Company Name

Tradename

Battery pack

Manufacturer/Distributor

Robert Bosch GmbH
Power Tools
Max-Lang-Str. 40-46
D-70771 Leinfelden-Echterdingen

Contact :
Telefon :

Emergency Response GBK Gefahrgut Büro GmbH
Mail: gbk@gbk-ingelheim.de
24-hour-telephone number **(001) 352-323-3500**

2. Composition/Information on ingredients

Characterisation

Battery pack with Lithium metal oxide

Important information

The battery should not be opened, heated above 120°C or burned since the exposition with the ingredients could be harmful under certain conditions. The product contains neither metallic lithium nor lithium alloy.

Composition

Kathode:	Lithium-Metal Oxide (active material) Polyvinylidene Fluoride (binder) Graphite (conductive material)
Anode	Carbon (active material) Polyvinylidene fluoride (binder)
Electrolyte	Organic Solvent (non aqueous liquid) Lithium Salt

3. Possible Risks

Not classified as dangerous according to the EC-Guideline 1999/45/EG.

4. First aid measures

The batteries are hermetically closed. A risk of exposure can only occur when the cells are mechanically abused. The following first aid measures therefore only refer to the handling in the case of release of the ingredients and not on the use of the battery under normal conditions.

General information

In case of contact, take off immediately all contaminated clothing..

In case of inhalation

In case of damages possible risk of respiratory irritation. Supply fresh air. If disorders persist, contact a doctor.

In case of skin contact

In case of damages possible risk of skin irritation. In case of skin contact wash off with water and soap. If disorders persist, contact a doctor.

In case of ey contact

In case of damages possible risk of eye irritation. In case of eye contact rinse thoroughly with water. If disorders persist, contact a doctor.

5. Fire-fighting measures

Suitable extinguishing material

Water
CO₂
Dry chemical extinguishers

Extinguishing material that may not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance, combustible products or resulting gases

Fire fighting measures, rescue works and clearance works with impact of the smouldering fire fumes or fire gases should only be carried out with suitable respiratory protective equipment.

Additional information

Residues of fires and chemically contaminated water should be disposed in compliance with the local regulations.

6. Accidental release measures

Personal precautions

Use personal protective clothing. Avoid skin contact.

Environmental precautions

Dispose damaged batteries according pos. 13 of this safety information.

Methods for cleaning up/taking up

Soak up with suitable absorbent material and dispose in compliance with the regulations.

7. Handling and storage

Store in well ventilated cool areas. Avoid Overheating, e.g. through incident solar radiation. Protect from air humidity and water.

Do not short-circuit.

Storage temperature < 60°C.

8. Exposure controls / personal protection

If handled in a suitable way, no personal protective equipment is necessary.

9. Physical and chemical properties

Compact battery pack with plastic shell. The product neither contains metallic lithium nor lithium alloys.

10. Stability and Reactivity

Not applicable.

11. Toxicology

No risk if handled reasonable. In case of damages or improper use irritant or sensitizing ingredients may get released.

12. Ecology

No negative ecologic effects are expected, if the product is used and disposed regularly.

13. Disposal

Batteries have to be collected separately from other wastes. During collection and storage, prevent short circuits. The contacts of the batteries must be insulated against short circuits. A short circuit may cause fire. If possible, batteries shall be admitted to disposal in discharged condition. If damages occur, batteries have to be packed solitary in a plastic bag.

For disposal the batteries have to be provided to the common return system. Transportation is carried out by the return system.

EWC (European Waste Code) Nr. 16 06 05 other batteries and accumulators

14. Transport information

Transport temperature: < 60°C.

14.1. Batteries with energy content up to 100Wh:
(The energy content in Wh is noted on the nameplate of the battery.)

Land transport (ADR/RID /GGVSE)

The product fulfils the requirements of Special provision 188 of the ADR/RID. If the requirements for packing, labelling and documentation according to this special provision are fulfilled, no additional regulations are applicable.

Sea ship

The product fulfils the requirements of Special provision 188 of the IMDG code. If the requirements for Packing, Labelling and documentation according to this special provision are fulfilled, no additional regulations are applicable.

Air transport

The product fulfils the following requirements:

- Battery pack separately (without equipment): PI 965, Section II; (UN3480)
- Battery pack with equipment (for example enclosed in an equipment case) : PI 966, Section II; (UN3481)
- Battery pack built-in into equipment (for example attached to tool or built-in into tool) : PI 967, Section II; (UN3481)

14.2. Batteries with energy content more than 100Wh:
(The energy content in Wh is noted on the nameplate of the battery.)

Land transport (ADR/RID /GGVSE)

The product must be handled as dangerous good class 9. The packaging instructions of the ADR must be complied to:

- pack separately (without equipment): UN3480
- Battery pack with equipment (for example enclosed in an equipment case) : UN3481
- Battery pack built-in into equipment (for example attached to tool or built-in into tool) : UN3481

Sea ship

The product must be handled as dangerous good class 9. The packaging instructions of the ADN must be complied to:

- pack separately (without equipment): UN3480
- Battery pack with equipment (for example enclosed in an equipment case) : UN3481
- Battery pack built-in into equipment (for example attached to tool or built-in into tool) : UN3481

Air transport

The product must be handled as dangerous good class 9. The packaging instructions of the IATA must be complied to:

- Battery pack separately (without equipment): PI 965, Section I; (UN3480)
- Battery pack with equipment (for example enclosed in an equipment case) : PI 966, Section I; (UN3481)
- Battery pack built-in into equipment (for example attached to tool or built-in into tool) : PI 967, Section I; (UN3481)



15. Other regulations

Labelling

The product has not to be labelled/classified according the EC-Guidelines

16. Other information

Data do not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet.