



BOSCH

160470

Material Safety Data Sheet

Safety information

Robert Bosch Tool Corporation
Revision: 14.01.2004 Rev.-No.: 1,00
Battery pack

1. Chemical Product And Company Identification

Product Name: Lithium-Ion Battery, P/N BAT400 – 499

Other/Generic Names: Battery pack

Manufacturer/Distributor: Robert Bosch Tool Corporation
1800 W. Central Road
Mt. Prospect, IL 60056

For More Information Call:

(Monday-Friday, 8:00 AM– 5:00 PM CST)
Bosch Tools
Customer Service
877-267-2499

In Case Of Emergency Call:

(24 Hours/Day, 7 Days/Week)
(866) 403-6302

2. Composition/Information on ingredients

Characterization

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

Cathode:	Lithium-Metal Oxide (active material) Polyvinylidene Fluoride (inder) 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 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 eye 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.



BOSCH

Material Safety Data Sheet

Safety information

Robert Bosch Tool Corporation

Revision: 14.01.2004 Rev.-No.: 1,00

Battery pack

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.



BOSCH

Material Safety Data Sheet

Safety information

Robert Bosch Tool Corporation

Revision: 14.01.2004 Rev.-No.: 1,00

Battery pack

13. Disposal

Batteries have to be collected separately from other wastes. Avoid short-circuits during collecting or storing. If damages occur, batteries have to be packed solitary in a plastic bag.

Admit to an approved disposal system. In the U.S. and Canada, recycle Li-Ion batteries at a Bosch Tool Service Center, RBRC collection (see www.RBRC.com), or an approved battery recycler. Use only approved Containers for collection. EWC Nr. 16 06 05 Other batteries and accumulators

14. Transport information

Transport temperature: < 60°C.

Land transport (ADR/RID)

The product fulfils the requirements of Special provision 188 of ADR/RID and is therefore, keeping the prescribed quantity limits, excepted from the application of the dangerous goods regulations.

Sea ship

The product fulfils the requirements of Special provision 188 of the IMDG-Code and is therefore, keeping the prescribed quantity limits, excepted from the application of the dangerous goods regulations.

Air transport

The product fulfils the requirements of Special provision A 45 of IATA-DGR and is therefore, keeping the prescribed quantity limits, excepted from the application of the dangerous goods regulations. Li-Ion batteries are regulated by ICAO when transported by air.

Other appropriate information

Disposal of used Lithium batteries according the Multilateral Agreement M 126 (only in the states, who signed this agreement). Li-Ion batteries are regulated as hazardous materials by DOT.

15. Other regulations

Labelling

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

16. Other information

Disclaimer:

Although Robert Bosch Tool Corporation has attempted to provide current and accurate information herein, Robert Bosch Tool Corporation makes no representations regarding the accuracy or completeness of the information and assumes no liability for any loss, damage, injury of any kind which may result from or arise out of the use of or reliance on the information by any person.

It shall be the responsibility of the customer purchasing this product to ensure that all employees/users of this product be familiar with and trained in the handling, use and hazards associated with this product as contained herein. This responsibility shall also extend directly to the user.