



SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product Name: Bosch, Skil, Dremel, RotoZip Ni-Cad Battery

Product Description: Ni-Cad Cell, Ni-Cad Battery Pack

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Manufacturer/Distributor:
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SECTION 2: HAZARDS IDENTIFICATION

IMPORTANT NOTE: In the absence of an incident or accident, it is not likely to apply to normal product use. However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. The battery should not be opened or burned. Exposure to the ingredients contained within or their combustion products could be harmful.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Characterization Battery pack with nickel cadmium accumulators

Important information: The battery should not be opened, heated above 85°C or burned since the exposition with the ingredients could be harmful under certain conditions.

Composition The battery cell is contained in a hermetically sealed-case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, hazardous materials are fully contained inside the battery cell. The ingredients contained in the battery can be harmful when they are released under certain circumstances like fire, explosion, extreme abuse, misuse or improper disposal that results in breaching of the battery cell case. The information and recommendations set forth are made in good faith and believed to be accurate as of the date of preparation. It is no warranty, expressed or implied, with respect to this information and disclaims liabilities from reliance on it.

SECTION 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 there is a possible risk of respiratory irritation. Supply fresh air. If disorders persist, contact a doctor. During normal use inhalation is an unlikely route of exposure due to



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containment of hazardous materials within the battery case. However, should the batteries be exposed to extreme heat or pressures causing a breach in the battery cell case, cadmium dusts and fumes may be emitted. Inhalation of cadmium dusts or fumes may cause throat dryness, respiratory irritation, headache, nausea, vomiting, chest pain, extreme restlessness and irritability, pneumonitis, and bronchopneumonia. In the case of high concentration exposures (e.g., above 1 to 5 mg/m³ during an eight hour period) death may occur within several days after the exposure.

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

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing material: Any class of extinguishing medium may be used on the batteries or their packing material. Special Fire Fighting Procedures: Exposure to temperatures of above 212°F/100 °C can cause evaporation of the liquid content of the potassium hydroxide electrolyte resulting in the rupture of the cello Potential for exposure to cadmium fumes during fire; use self-contained breathing apparatus.

Special exposure hazards arising from the substance, combustible products or resulting gases: In case of fire vapors containing Nickel and Cadmium may be released. Firefighting measures, rescue works and clearance works with impact of the shouldering 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.

SECTION 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.

SECTION 7: HANDLING AND STORAGE

Store in a cool place, but prevent condensation on cell or battery terminals. Elevated temperatures may result in reduced battery life. Optimum storage temperatures are between -31°F/ 0°C and 95°F/ 35°C. Store only in well ventilated cool areas. Avoid Overheating, e.g. through incident solar radiation. Protect from air humidity and water.

Accidental short circuit will bring high temperature elevation to the battery as well as shorten the battery life. Be sure to avoid prolonged short circuit since the heat can burn attendant skin and even rupture the battery cell case. Batteries packaged in bulk containers should not be shaken. Metal covered tables or belts used for assembly of batteries into devices can be the source of short circuits; apply insulating material to assembly work surface.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Compact battery pack with plastic shell. The battery cell is contained in a hermetically sealed-case, designed to withstand temperatures and pressures encountered during normal use.



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SECTION 10: STABILITY AND REACTIVITY

NA

SECTION 11: TOXICOLOGICAL INFORMATION

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

SECTION 12: ECOLOGICAL INFORMATION

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

SECTION 13: DISPOSAL CONSIDERATIONS

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.

In the U.S. and Canada, recycle Ni-Cad batteries at a Bosch Tool Service Center, RBRC collection location (see www.RBRC.com), or an approved battery recycler. EWC Nr. 16 06 05 (Other batteries and accumulators). Take local legislation into account.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID) Dry Cells are not classified as dangerous according the regulations for land transportation. They have to be offered for transportation in a manner that prevents the dangerous evolution of heat and short circuits.

Sea ship (IMDG) Dry Cells are not classified as dangerous according the regulations for land transportation. They have to be offered for transportation in a manner that prevents the dangerous evolution of heat and short circuits.

Air transport IATA/DGR Dry Cells are not classified as dangerous according the regulations for (and transportation. They have to be offered for transportation in a manner, that prevents the dangerous evolution of heat and short circuits (see Special Provision 123 of IATA/DGR).

DOT Classification Dry Cells are not classified as dangerous according the DOT regulations. They have to be offered for transportation in a manner, that prevents the dangerous evolution of heat and short circuits (see Special Provision 130 of DOT).

Other appropriate information Disposal of used batteries according the Multilateral Agreement M 126 (only in the states, who signed this agreement)

SECTION 15: REGULATORY INFORMATION

NA

SECTION 16: OTHER INFORMATION

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 are 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.