

Safety information for NiCd batteries

Date of issue: 13/11/2018 Revision date: 13/11/2018 Supersedes: 18/05/2015 Version: 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name SFB 121, SFB 150, B 24/2.0, B 36/2.4, BP 72/3.0

Relevant identified uses of the substance or mixture and uses advised against

Rechargeable NiCd battery for power tools

Manufacturer/Supplier

Supplier

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Department issuing data specification sheet

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SECTION 2: Hazards identification

For the battery chemical materials are stored in a hermetically sealed metal case, designed to withstand Temperatures and pressures encountered during normal use. As a result, during normal use there is no physical danger of ignition or explosion and chemical danger of hazardous materials leakage.

It may cause heat generation or electrolyte leakage if battery terminals contact with other metals. Electrolyte is flammable. In case of electrolyte leakage move the battery from fire immediately.

However if exposed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the gas release vent will be operated. The battery case will be breaked at the extreme, hazardous materials may be released.

Moreover, if heated strongly by a surrounding fire, acrid gas may be emitted.

SECTION 3: Composition/information on ingredients

Rechargeable NiCd battery pack:

Name/type	no. of cells	energy capacity [Wh]	Cd [g]
SFB 121	10	22,8	86
SFB 150	13	29,64	118,8
B 24/2.0	20	45,6	172
B 36/2.4	30	86,4	276
RP 72/3 0	20	72	184

This product contains a positive electrode (Nickel(III)-oxidehydroxide), a negative electrode (Cadmium) and electrolyte (potassium hydroxide / sodium hydroxide).

The physical form of the product, however, precludes exposure to workers under normal conditions of use.

SECTION 4: First aid measures

Description of first aid measures

First-aid measures general If the electrolyte is leaking out of the battery pack, the following measures have to be taken.

First-aid measures after inhalation Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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Most important symptoms and effects, both acute and delayed

Symptoms/effects Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media Cool batteries and accumulators with water jet. Water spray. Foam. Dry powder. Carbon

dioxide. Sand.

Special hazards arising from the substance or mixture

No additional information available

Advice for firefighters

Firefighting instructions Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures No flames, no sparks. Eliminate all sources of ignition. Isolate from fire, if possible, without

unnecessary risk.

For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Ventilate area.

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and material for containment and cleaning up

Methods for cleaning up Take up liquid spill into absorbent material.

Other information Dispose of materials or solid residues at an authorized site.

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SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling Do not soak in water or seawater.

Do not expose to strong oxidizers.

Do not give a strong mechanical shock or fling.

Never disassemble, modify or deform.

Do not connect the positive terminal to the negative terminal with electrically conductive

material.

Use only the chargers / electric tools specified by Hilti to charge or discharge the battery.

Do not throw into fire or expose to high temperatures (>85 °C).

Do not connect the positive terminal to the negative terminal with electrically conductive

material.

Hygiene measures Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions Avoid direct sunlight, high temperature, high humidity.

Store in a cool place (temperature: -20 °C ~ 40 °C, humidity: 45 - 85%).

Incompatible products Strong bases. Strong acids.
Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature -20 - 40 °C

Information on mixed storage Store away from water.

Do not store together with electrically conductive materials.

The accu-pack should be stored at 30 to 50% of the charging capacity. Avoid storing in places where it is exposed to static electricity.

SECTION 8: Exposure controls/personal protection

Exposure controls

Appropriate engineering controls

If the electrolyte is leaking out of the battery pack, the following measures have to be taken.

Personal protective equipment Avoid all unnecessary exposure.

Hand protection Wear protective gloves.

Туре	Material	Permeation	Thickness (mm)	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0,12	EN 374

Eye protection Chemical goggles or safety glasses





Other information Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance plastic case.
Colour red. Black.

Explosive properties Risk of explosion by shock, friction, fire or other sources of ignition.

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Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

No additional information available

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Heating may cause a fire or explosion. In the event of misuse of a battery cell or the like, oxygen or hydrogen accumulates in the cell and the cell's internal pressure rises. These gases may be emitted through the gas release vent. The gases may ignite if in the proximity of a naked flame or source of ignition.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Water, humidity.

Incompatible materials

Conductive materials, water, seawater, strong oxidizers and strong acids.

Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

Potential adverse human health effects and symptoms

NiCd batteries have no toxic characteristics if used as intended and as directed. Cadmium compounds or others, which are classed as dangerous substances, may be released if the batteries are opened due to damage or misuse. This product contains an organic electrolyte. If the electrolyte is leaking out of the battery pack, the following effects are known when getting into contact: Irritation: severely irritant to eyes. Irritation: may cause irritation to the respiratory system.

Other information

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

SECTION 12: Ecological information

Additional information

Do not allow battery packs to penetrate the soil.

The battery cell may corrode and electrolyte may leak.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations

Dispose in a safe manner in accordance with local/national regulations. Refer to manufacturer/supplier for information on recovery/recycling.

Ecology - waste materials

European List of Waste (LoW) code

Avoid release to the environment. 16 06 02* - Ni-Cd batteries

20 01 33* - batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and

unsorted batteries and accumulators containing these batteries

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SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	RID	
UN number				
Not applicable	Not applicable	Not applicable	Not applicable	
UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	
Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	Not applicable	
Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	
No supplementary information available				

Special precautions for user

- Overland transport

- Transport by sea

No data available

- Air transport

Transport regulations (IATA)

Not restricted
Special provisions (IATA)

A123

- Rail transport

Carriage prohibited (RID) No

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No additional information available

SECTION 15: Regulatory information

No additional information available

SECTION 16: Other information

Indication of changes:

1.1	Product name	Removed	

Other information

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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