

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

- **Product identifier**
- **Trade name:** NiCd Batteries
SBP 10 / SBP 12 / SFB 120 / SFB 121 / SFB 150 / SFB 151 / SFB 180 /
BP 40/1,7 / BP 72/3,0 / B 24/2,0 / B 36/2,4
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Article category** AC3 Electrical batteries and accumulators
- **Application of the substance / the preparation** Rechargeable NiCd battery pack for electric tools
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Hilti France S.A.
Rond Point Mérintais
1, rue Jean Mermoz
78778 Magny-les-Hameaux
Tel +33 1 3012 5000
Fax +33 1 3012 5012
Customer Service:
Tel 0800 397 397
Fax 0800 278 278
- **Informing department:**
anchor.hse@hilti.com
see section 16
- **Emergency telephone number:**
Hilti France S.A.
Tél: 0033 / 1 30 12 50 00
Fax 0033/ 1 30 12 50 12
Schweizerisches Toxikologisches Informationszentrum - 24 h Service
Tel.: 0041 / 1 251 51 51 (international)

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
In accordance with article 3 (3) of REACH, this / these item(s) are products.
A product is not subject to the mandatory marking regulations applicable to dangerous substances.
The product is not classified as hazardous to health or environment according to the CLP regulation.
 - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 - **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - **Classification system:**
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.
 - **Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008** Void
 - **Hazard pictograms** Void
 - **Signal word** Void
 - **Hazard statements** Void
 - **Other hazards**
- 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. Elektrolyte 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.
- **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
 - **Description:**
Rechargeable NiCd battery pack:
- | Name/type | no. of cells | energy capacity [W] | cadmium [g] |
|-----------|--------------|---------------------|-------------|
| SBP 10 | 8 | 18,24 | 68,8 |
| SBP 12 | 10 | 22,8 | 86 |
| SFB 120 | 10 | 22,8 | 86 |
| SFB 121 | 10 | 22,8 | 86 |
| SFB 150 | 13 | 29,64 | 118,8 |

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according to 1907/2006/EC, Article 31 / ISO 11014

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SFB 151	13	29,64	118,8
SFB 180	15	34,2	129
BP 40/1,7	20	40,8	172
BP 72/3,0	20	72	184
B 24/2,0	20	45,6	172
B 36/2,4	30	86,4	276

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.

Dangerous components:

CAS: 7440-02-0 EINECS: 231-111-4	nickel T R48/23; Xn R40; Xi R43 Carc. Cat. 3 Carc. 2, H351; STOT RE 1, H372; Skin Sens. 1, H317	15-40%
CAS: 7440-43-9 EINECS: 231-152-8	cadmium (non-pyrophoric) T+ R26; T Carc. Cat. 2 R45-48/23/25; Xn R62-68-63; N R50/53 Muta. Cat. 3, Repr. Cat. 3 Acute Tox. 2, H330; Muta. 2, H341; Carc. 1B, H350; Repr. 2, H361fd; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	10-40%
CAS: 7440-48-4 EINECS: 231-158-0	cobalt Xn R42/43 R53 Resp. Sens. 1, H334; Skin Sens. 1, H317; Aquatic Chronic 4, H413	0-3%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide C R35; Xn R22 Skin Corr. 1A, H314; Acute Tox. 4, H302	0-5%
CAS: 1310-73-2 EINECS: 215-185-5	sodium hydroxide C R35 Skin Corr. 1A, H314	0-5%

Additional information For the wording of the listed risk phrases refer to section 16.

4 First aid measures

Description of first aid measures

General information

This product contains an organic electrolyte. If the electrolyte is leaking out of the battery pack, the following measures have to be taken.

After inhalation Supply fresh air or oxygen; call for doctor.

After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, call a physician.

After eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Information for doctor

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents

Water spray, carbon dioxide (CO₂), carbon dioxide blanket, foam, or dry powder.

Foam

Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:

In the event of fire, wear self contained breathing apparatus

Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

Environmental precautions: Do not allow to enter the ground/soil.

Methods and material for containment and cleaning up:

Collect mechanically.

Dilute with much water.

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- **Reference to other sections**
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

7 Handling and storage

- **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.
- **Information about protection against explosions and fires:**
 - 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.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
 - Avoid direct sunlight, high temperature, high humidity.
 - Store in a cool place (temperature: -20°C ~ 35°C, humidity: 45 - 85%)
- **Information about storage in one common storage facility:**
 - Store away from water.
 - Do not store together with electrically conductive materials.
- **Further information about storage conditions:**
 - 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.
 - Protect from heat and direct sunlight.
 - Protect from humidity and keep away from water.
- **Storage class**
 - As per VCI (1991) storage classification concept.
 - 11
- **Specific end use(s)** To be used only for the intended purpose. Please refer to the operating instructions.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
 - No technical measures are necessary during normal use. In case of leakage of substances contained within the cell, the information below may be useful.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures** The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:**
 - In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
- **Recommended filter device for short term use:** Filter AX
- **Protection of hands:** Protective gloves
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - Form:** plastic case
 - Colour:** Black / Red
 - Odour:** Odourless
 - Odour threshold:** Not determined.

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· pH-value:	Not applicable
· Change in condition	
Melting point/Melting range:	Not applicable
Boiling point/Boiling range:	Not applicable
· Flash point:	Not applicable
· Inflammability (solid, gaseous)	Not determined.
· Ignition temperature:	
Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density	Not applicable
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Unsoluble
· Segregation coefficient (n-octanol/water):	Not determined.
· Viscosity:	
dynamic:	Not applicable.
kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0,0 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
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**
Do not connect the positive terminal to the negative terminal with electrically conductive material.
Protect from heat and direct sunlight.
Protect from humidity and keep away from water.
- **Incompatible materials:** Conductive materials, water, seawater, strong oxidizers and strong acids.
- **Hazardous decomposition products:** Acrid or harmful gas is emitted during fire

11 Toxicological information

- **Information on toxicological effects**
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.
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:**
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:
Caustic effect on skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.
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.

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow battery packs to penetrate the soil.
The battery cell may corrode and electrolyte may leak.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Dispose of this battery pack according to national regulations or return the used battery pack to Hilti.

· European waste catalogue

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 06 00	batteries and accumulators
16 06 02*	Ni-Cd batteries
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 00	separately collected fractions (except 15 01)
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

- **Uncleaned packagings:**
- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information

· UN-Number	Void
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	Void
· ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	Void
· Class	Void
· Packing group	Void
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications. Hilti sealed NiCd batteries are considered to be "dry cell" batteries and are not subject to above regulations.
· UN "Model Regulation":	-

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

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· **Chemical safety assessment:** not required.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H330 Fatal if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H351 Suspected of causing cancer.
- H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.
- R22 Harmful if swallowed.
- R26 Very toxic by inhalation.
- R35 Causes severe burns.
- R40 Limited evidence of a carcinogenic effect.
- R42/43 May cause sensitisation by inhalation and skin contact.
- R43 May cause sensitisation by skin contact.
- R45 May cause cancer.
- R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
- R48/23/25 Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R53 May cause long-term adverse effects in the aquatic environment.
- R62 Possible risk of impaired fertility.
- R63 Possible risk of harm to the unborn child.
- R68 Possible risk of irreversible effects.

· **Department issuing data specification sheet:**

Hilti Entwicklungsgesellschaft mbH
Hiltistrasse 6
D-86916 Kaufering
Tel.: +49 8191 906092
Fax: +49 8191 906826
e-mail: anchor.hse@hilti.com

· **Contact:** Mechthild Krauter

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
GHS: Globally Harmonized System of Classification and Labelling of Chemicals

FRE