

Printing date 23.01.2015

Version number 1

Revision: 23.01.2015

	ne substance/	mixture an <u>d of the company/un</u>	dertaking
· Product identifier		l v	8
Trada nama: NiMH	I Rattarias		
SFB 1	105 / SFB 12	25 / SFB 126 / SFB 155 /	SFB 185 / B 24/3,0
PSA 8	30 / PRA 80	01 / PRA 82 / PRA 810 /	PRA 87 / PPA 82
· Relevant identified	uses of the sub	stance or mixture and uses advised	l against
· Application of the su	ubstance / the	mixture Rechargeable NiMH batter	y pack for electric tools
• Details of the suppli	er of the safet	y data sheet	
· Manufacturer/Supp	lier:		
2-6-20 Chigasaki			
JP-Tsuzuki-ku, Yoko	hama City 224-	-8550	
Kanagawa Prefecture	south		
Hours of Customer S	Service		
(Excluding holidays)	8:30 to 18:30 l	Monday to Friday	
FAX: 0120-23-2953			
E-mail: hiltijapan@h	nilti.com		
Informing departme	ent:		
anchor.hse@hilti.com see section 16	1		
· Emergency telephon	ie number:		
Schweizerisches Toxi	ikologisches Inf	formationszentrum - 24 h Service	
1e1.: 0041 / 44 251 5	1 51 (Internatio	onal)	
Hilti Japan	0.00 / 10.00)		
(Excluding holidays) TEL: 0120-66-1159	8:30 to 18:30 N	Alonday to Friday	
FAX: 0120-23-2953			
Hazards identifica	ition		
· Classification of the	substance or :		
	substance or i	mixture	
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Trade name	: NiM	НB	at	teries												
	SFB	105	/	SFB	125	/	SFB	126	/	SFB	155	/	SFB 185	/	B 24/3,0	
	PSA	80	/	PRA	801	/	PR A	A 82	/	PRA	810	/	PRA 87	/	PPA 82	

SFB 155	13	46,8
SFB 185	15	54
B 24/3,0	20	72
PSA 80	4	19,2
PRA 801	3	30,6
PRA 82	2	19,2
PRA 810	3	42
PRA 87	4	44
PPA 82	4	32

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

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

· Dangerous	components:	
12054-48-7	nickel dihydroxide	0-20%
	Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1A, H350; Repr. 1B, H360; STOT RE 1, H372; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332; Skin Irrit. 2, H315; Skin Sens. 1, H317	
	NiOOH	1-22%
	MmNiCoMnAl	2-34%
	(MmNiCoMnAl)Hx	3-35%
1310-58-3	potassium hydroxide	0-4%
	Skin Corr. 1A, H314; Acute Tox. 4, H302	
1310-73-2	sodium hydroxide	0-4%
	Skin Corr. 1A, H314	
· 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 Take affected persons into the open air and position comfortably
- After skin contact Instantly wash with water and soap and rinse thoroughly. If skin irritation persist, 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.
- 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. Dry sand
- 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.

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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.
- 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

· 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 \sim 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.

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.



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 PRA 82 /
 PRA 810 /
 PRA 87 /
 PPA 82

• Recommended filter device for short term use: Filter AX

Protection of hands:



Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0,12 \text{ mm}$

· Penetration time of glove material

The exact break trough 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 propertie	S	
• Information on basic physical and c • General Information	chemical properties	
- Appearance:	plactia asso	
rorm: Colour:	Plastic case Black / Red	
	Odourless	
· Odour threshold:	Not determined.	
· 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.	
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 PRA 810 /
 PRA 87 /
 PPA 82

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Solubility in / Miscibility with	1	
Water:	Unsoluble	
· Partition coefficient (n-octan	ol/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.

- Do not overcharge.
- 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
- · 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.

- · Sensitisation: No sensitizing effect known.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) None

12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- **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.

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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 06 05 other batteries and accumulators

20 01 34 batteries and accumulators other than those mentioned in 20 01 33

Uncleaned packagings:

• Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

14 Transport information	
UN-Number ADR, IMDG, IATA ADN	UN3496 not applicable
UN proper shipping name ADR, IMDG, IATA	Batteries, nickel-metal hydride
· Transport hazard class(es)	
· ADR, IMDG, IATA · Class	9 Miscellaneous dangerous substances and articles.
Packing group ADR	Void
Environmental hazards: Marine pollutant:	No
Special precautions for user EMS Number:	Warning: Miscellaneous dangerous substances and articles. F-A,S-I
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	I of Not applicable.
· Transport/Additional information:	
·IMDG	Special Provision 963
·IATA	Special Provision A199
· UN "Model Regulation":	UN3496, Batteries, nickel-metal hydride

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· 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.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.

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rade name: NIMH Batteries SFB 105 / SFB 125 / SFB 126 / SFB 155 / SFB 185 / B 24/3,0 PSA 80 / PRA 801 / PRA 82 / PRA 810 / PRA 87 / PPA 82	
	(Contd. of page 6)
H360 May damage fertility or 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.	
· Department issuing data specification sheet:	
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Hiltistrasse 6	
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$rax. \pm 49.8191.901/0510$	
Contact: Meenthild Krauter	
Abbreviations and acronyms:	
RID: Reglement international concernant le transport des marchandises dangereuses par chemin de ler (Regulations Concerning Dengereus Goode hu Pail)	the International Transport of
CAO: International Civil Aviation Organisation	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Internati	onal Carriage of Dangerous Goods
by Road)	0 0
IMDG: International Maritime Code for Dangerous Goods	
IA1A: International Air I ransport Association	
ETINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Resp. Sens. 1: Sensitisation - Respirate, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1	
Muta 2: Germ cell mutagenicity. Hazard Category 2	
Carc. 1A: Carcinogenicity, Hazard Category 1A	
Repr. 1B: Reproductive toxicity, Hazard Category 1B	
STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1	
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1	
Aquate Chronic 1. riazardous to the aquate environment - Chronic Hazard, Category 1	
bata compared to the previous version attered.	