

Version number 1

Revision: 23.01.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier Trade name: NMH Batteries SED 105 / SFB 115 / SFB 125 / SFB 125 / SFB 155 / SFB 155 / B 24/3,0 PSA 80 / PRA 801 / PRA 82 / PRA 810 / PRA 87 / PPA 82 1.2 Reternit identified uses of the substance or mixture and uses advised against Article category AC3 Electrical batteries and accumulators 1.4 Dictails of the substance or the mixture Reduces advised against Aming four Composition of the substance or the mixture Reduces advised against Aming four Composition of the substance or the mixture Reduces advised against Aming four Composition of the substance or the safety data sheet Maming four Composition of the substance or the mixture Reduces advised against and the substance of the substance or the safety data sheet Informing department: and the substance or mixture of Ci: 0041 / 44 251 51 51 (international) Hill (G. Britain) Lid Hill (G. Britain) (F. No 1272/2008 Void Hill (Harrof Starcoving to Regulation (F.C) No 1272/2008 Void Hill (Harrof Starcoving to Regulation (F.C) No 1272/2008 Void Hill (Harrof Starcoving to Regulation (E.C)	rinting date 25.01.201:	S Version number 1 Revision: 23.01.2015
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1.3 Details of the supplier of the safety data sheet Maint (Ct. Britain Ltd. 1 Trafford Wharf Read Trafford Park GB-M17 1BY Manchester Phone: 3000 586 100 (Freephone) Fas: 6800 586 200 (Freefas) Email: gbasles/ghilt.com • Informing department: andor.bssc/ghilt.com • Informing department: andor.bssc/ghilt.com • I.4 Emergency telephone number: Schweizeristers Toxikologisches Informationszentrum - 24 h Service Tel: .0401 7.44 251 51 (International) Hilt (GL. Britain) Ltd Phone: 3000 586 100 (Freephone) Fas: 0800 586 200 (Freefas) *2.1 Classification of the substance or mixture •1.1 Staffordion of the substance or mixture •1.1 Classification according to Regulation (EC) No 1272/2008 h accordance with article 3: 0) of REACU, Mix / these iten(s) are articles. An article 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 Regulation (EC) No 1272/2008 Void •1.abelling according to Regulation (EC) No 1272/2008 Void •1.abelling according to Regulation (EC) No 1272/2008 Void •1.abelling according to Regulation	• Trade name: <u>Nil</u> <u>SF</u> <u>PS</u> • 1.2 Relevant ider • Article category	MH BatteriesB 105 / SFB 125 / SFB 126 / SFB 155 / SFB 185 / B 24/3,0A 80 / PRA 801 / PRA 82 / PRA 810 / PRA 87 / PPA 82ntified uses of the substance or mixture and uses advised againstAC3 Electrical batteries and accumulators
Hilti (Gt. Britain) Ltd Phone: 0800 886 100 (Freephone) Fax: 0800 886 200 (Freefax) SECTION 2: Hazards identification • 2.1 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 articles. An article 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. • 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 Void • Hazard pictograms Void • Signal word Void • Bazard statements Void • 2.3 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 electrolite leakage if battery terminals contact with other metals. Elektrolyte is flammable. In case of electrolyte leakage move the battery form fire immediately. However if exposed to a fire, added mechanical shocks, decomposed, added clectric 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.	 1.3 Details of the Manufacturer/Su Hilti (Gt. Britain) 1 Trafford Wharf Trafford Park GB-M17 1BY Ma Phone: 0800 886 Fax: 0800 886 200 Email: gbsales@h Informing depar anchor.hse@hilti. see section 16 1.4 Emergency to Schweizerisches 7 	supplier of the safety data sheet applier: Ltd. Road unchester 100 (Freephone) 0 (Freefax) iilti.com tment: com elephone number: Foxikologisches Informationszentrum - 24 h Service
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SECTION 3: Composition/information on ingredients • 3.2 Chemical characterisation: Mixtures • Description: Rechargeable NiMH battery pack: Name/type no. of cells energy capacity [Wh] SFB 105 8 SFB 125 10 36	Labelling accord Hazard pictograu Signal word Void Hazard statemen 2.3 Other hazard For the battery ch pressures encount explosion and che It may cause heat flammable. In cas However if exposs vent will be opera Moreover, if heate Results of PBT a PBT: Not applica	ing to Regulation (EC) No 1272/2008 Void ms Void hts Void ls emical materials are stored in a hermetically sealed metal case, designed to withstand temperatures and ered during normal use. As a result, during normal use there is no physical danger of ignition or mical danger of hazardous materials leakage. generation or electrolite leakage if battery terminals contact with other metals. Elektrolyte is e of electrolyte leakage move the battery from fire immediately. ed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the gas release ted. The battery case will be breaked at the extreme, hazardous materials may be released. ed strongly by a surrounding fire, acrid gas may be emitted. nd vPvB assessment ble.
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Description:Rechargeable NiMH battery pack:Name/typeno. of cellsenergy capacity [Wh]SFB 1058SFB 1251036		• • •
SFB 125 10 36	Description: Rechargeable NiN Name/type	<i>I</i> H battery pack: no. of cells energy capacity [Wh]

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Trade name:	SFB 105 /	SFB 125 /		/ SFB 185 / / PRA 87 /	,

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 compone	ents:	
	nickel dihydroxide Resp. Sens. 1, H334; Muta. 2, H341; Carc. 1A, H350i; Repr. 1B, H360D; 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	0-20%
	NiOOH	1-22%
	MmNiCoMnAl	2-34%
	(MmNiCoMnAl)Hx	3-35%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide Skin Corr. 1A, H314; Acute Tox. 4, H302	0-4%
CAS: 1310-73-2 EINECS: 215-185-5	sodium hydroxide Skin Corr. 1A, H314	0-4%
· Additional informa	tion For the wording of the listed risk phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 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.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents
- Water spray, carbon dioxide (CO2), carbon dioxide blanket, foam, or dry powder. Dry sand
- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 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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SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Keep away from ignition sources
- 6.2 Environmental precautions: Do not allow to enter the ground/soil.
- · 6.3 Methods and material for containment and cleaning up:
- Collect mechanically.
- Dilute with much water.
- 6.4 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.

SECTION 7: Handling and storage

• 7.1 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.

· 7.2 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.
- 7.3 Specific end use(s) To be used only for the intended purpose. Please refer to the operating instructions.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

· 8.1 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.

- · 8.2 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 801 /
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 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.

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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.

9.1 Information on basic physical an	nd chemical properties	
General Information	iu chemicai properties	
Appearance:		
Form:	plastic case	
Colour:	Black / Red	
Odour:	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 Evaporation rate	Not applicable. Not applicable.	

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		(Contd. of page
· Solubility in / Miscibility with		
Water:	Unsoluble	
· Partition coefficient (n-octanol	/water): Not determined.	
· Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
• 9.2 Other information	No further relevant information available.	

SECTION 10: Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 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.

10.4 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.

- 10.5 Incompatible materials: Conductive materials, water, seawater, strong oxidizers and strong acids.
- · 10.6 Hazardous decomposition products: Acrid or harmful gas is emitted during fire

SECTION 11: Toxicological information

- · 11.1 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

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 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.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

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SECTION 13: Disposal considerations

· 13.1 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.

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

SECTION 15: Regulatory information

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

15.2 Chemical safety assessment: not required.

SECTION 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.
- H350i May cause cancer by inhalation.

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H360D May damage 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:	
Hilti Entwicklungsgesellschaft mbH	
Hiltistrasse 6	
D-86916 Kaufering	
Tel.: +49 8191 906310	
Fax: +49 8191 90176310	
e-mail: anchor.hse@hilti.com	
Contact: Mechthild Krauter	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concer	ning the International Transport of
Dangerous Goods by Rail)	ing the international framport of
ICAO: International Civil Aviation Organisation	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the Inter	rnational Carriage of Dangerous Goods
by Road) IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: 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 - Respirat., Hazard Category 1	
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Muta. 2: Germ cell mutagenicity, Hazard Category 2	
Carc. 1A: Carcinogenicity, Hazard Category 1Ai	
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 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1	
* Data compared to the previous version altered.	
Data comparcu to the previous version aftereu.	