

MSDS Medical Spare Parts NiMH Battery Packs (MSP-A-AH-00300)

Identification of the substance/preparation and the company/undertaking

Commercial product name	Medical Spare Parts Battery Pack MSP-A-AH-00300
Use of the Substance/ Preparation	Medical Patient Hoists
Company	Medical Spare Parts B.V. De Sonman 7, 5066GJ Moergestel, The Netherlands T: +31 (0)88 0531000 F: +31 (0)88 0531001 email: contact@medicalspareparts.com https://www.medicalspareparts.com
Product Code	MSP-A-AH-00300
Emergency telephone number	+31 (0)88 0531000

Hazards Identification

Most important hazards	The product is classified as dangerous in accordance with directive 1999/45/EC C—Corrosive N—Dangerous for the environment Xn—Harmful Harmful by inhalation and when swallowed Causes severe burns when opened May cause sensitization by inhalation and skin contact
Environmental properties	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Composition/Information on ingredients

Chemical nature of the preparation (battery cells)	Lead, lead compounds and sulfuric acids in a hard case. Polypropylene case with six elements each containing lead plates and sulphuric acid			
Substance name	Value(s)	CAS No / EC No	Symbol(s)	R-Phrase(s)
Nickel Hydroxide	15—30%	12054-48-7 / 235-008-5	Xn, N	40/43/20-22/50-53
Metal Hydride alloy	15—40%	1309-48-4 / 215-171-9		40/42-43
Potassium hydroxide	3—15%	1310-58-3 / 215-181-3	C, Xn	35/22
Cobalt hydroxide	2.5—7%	21041-93-0 / 244-166-4	Xn	22 / 42-43

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First Aid Measures

General Advice	Show this safety data sheet to the doctor in attendance
Inhalation	Keep at rest Move to fresh air Oxygen or artificial respiration if needed Obtain medical attention
Skin contact	Take off contaminated clothing and shoes immediately Wash off with plenty of water for at least 15min Obtain medical attention
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Call a physician immediately
Ingestion	Do not induce vomiting Drink small amounts of water Obtain medical attention

Fire-fighting measures

Suitable extinguishing media	Use dry chemical, CO ₂ , sand.
Extinguishing media which must not be used	Water, water spray
Specific hazards	Risk of receptable bursting
Special protective equipment for firefighters	Wear personal protective equipment Firefighters wear self-contained breathing apparatus for firefighting if necessary
Hazardous decomposition products	Nickel and cobalt compounds

Accidental release measures

Personal precautions	Evacuate personnel to safe areas. Wear personal protective clothing. Avoid contact with skin and eyes.
Environmental precautions	Do not flush into surface water or sanitary sewer system do not allow material to contaminate ground water system
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal. Dispose of in accordance with local regulations

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Handling and storage

Storage	Keep in a well-ventilated place. Remove all sources of ignition. Ensure battery terminals are protected
Handling	Make sure no metal is inserted in the connector to prevent short circuit.
Specific use	No information available

Exposure controls / Personal protection

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment (filter type b)
Hand protection	Rubber gloves (EN 374) or PVC disposable gloves. (only for those battery packs with exposed battery cells)
Eye protection	Safety glasses with side shields EN 166
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system

Physical and chemical properties

Appearance	Battery, Sealed
Colour	Colourless
Odour	None
pH	No information available
Boiling point/range	No information available
Melting point/range	No information available
Flash point	No information available
Ignition temperature	No information available
Evaporation rate	No information available
Solubility in other solvents	No information available
Solubility in water	No information available
Density	No information available

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Stability and reactivity

Hazardous polymerisation	Hazardous polymerisation does not occur
Materials to avoid	Exposure to moisture
Conditions to avoid	Avoid shock and friction Heat, Flames and sparks
Hazardous decomposition products	Nickel and cobalt compounds
Stability	Stable under all circumstances

Toxicological Information

Local effects	Causes severe burns. Risk of serious damage to eyes. Harmful by inhalation and if swallowed
Long term effects	No data available. Avoid repeated exposure
Specific effects	May cause sensitization by inhalation and skin contact. Limited evidence of carcinogenic effect

Ecological information

	If used as directed and if the integrity of the battery casing and security vent are maintained, the ingredients are not expected to pose a significant risk to the environment.
Ecotoxicity effects	Nickel hydroxide: Very toxic to aquatic organisms, may cause long term adverse affects in the aquatic environment.
Mobility	No data is available on the product itself
Persistence and degradability	No data is available on the product itself

Disposal considerations

Waste from residues	Dispose of in accordance with local regulations
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Further Information:

EWC waste disposal No. 200133—batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries.

Never incinerate Ni-MH batteries

Never dispose Ni-MH batteries as landfill

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Transport information

The Medical Spare Parts NiMH batteries are considered to be “dry cell” batteries and are not subject to dangerous goods regulation for the purpose of transportation by the US department of transportation (DOT), the international civil aviation organisation (ICAO), the international air transport association (IATA) or the international maritime dangerous goods regulations (IMDG). The only DOT requirement for shipping Nickel Metal Hydride batteries is Special Provision 130 which states: “Batteries, dry are not subject to the requirements of this subchapter only when they are offered for transportation in a manner that prevents dangerous evolution of heat (for example, by the effective insulation of exposed terminals).” IATA requires that batteries transported by air must be protected from short-circuiting and protected from movement that could lead to short-circuiting.

The international maritime dangerous goods code regulate them for ocean transportation under special provision 304 which says: “Batteries, dry, containing corrosive electrolyte which will not flow out of the battery if the battery case is cracked are not subject to the provisions of this code provided the batteries are securely packed and protected against short-circuits. Examples of such batteries are: alkali-manganese, zinc carbon, nickel metal hydride and nickel-calcium batteries.”

Class	Corrosive 9
ADR/RID	
UN-No	3496
Proper shipping name	Batteries, Nickel metal hydride
Class	9

IMDG	
UN-No	3496
Proper shipping name	Batteries, Nickel metal hydride

ICAO/IATA	
UN-No	3496
Class	9
Proper shipping name	Batteries, Nickel metal hydride
Special Provisions	A123, A199

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Regulatory Information

Labelling	Limited labelling information is permitted according to article 12 of EC Directive 1999/45/EC The preparation is classified as dangerous in accordance with Directive 1999/45/EC
Symbol(s)	Xn—Harmful, C—Corrosive, N—Dangerous for the environment
R-Phrase(s)	R20/22—Harmful by inhalation and if swallowed R35—Causes severe burns\ R40—Limited evidence of carcinogenic effect R42/43—May cause sensitization by inhalation and skin contact R50/53—very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S-phrase(s)	S1/2—Keep locked up and out of the reach of children S36/37/39—Wear suitable protective clothing, gloves and eye/face protection S45— In case of accident or if you feel unwell, seek medical advice immediately (show label where possible) S60—This material and its container must be disposed of as hazardous waste. S61—Avoid release to the environment. Refer to special instruction/ safety data sheets

Other information

Sources of key data used to compile this datasheet	European chemicals bureau
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Disclaimer

The contents and format of this SDS are in accordance with EEC Commission Directive 1999/45/EC, 1967/548/EC and EEC Commission Regulation 1907/2006/EC (REACH) Annex II.

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