

# Ni-MH Battery Pack SAFETY DATA SHEET

#### SDS0090US-EN

ACCORDING TO US CFR 1910.1200

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Ni-MH Battery Pack.

Trade Name SOLO760-XXX, SOLO770-XXX, TRUTEST (XXX denotes customer variant).

CAS No. Article. EINECS No. Article.

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

Identified Use(s)Battery product.Uses Advised AgainstNone known.

1.3 Details of the supplier of the Safety Data Sheet

Company Identification SDi, LLC, 3535 State Highway 66, Parkway 100 Building 6, Neptune, NJ 07753, USA.

 Telephone
 (732) 751 9266

 Fax
 (732) 751 9241

 E-mail
 sales@sdifire.com

1.4 Emergency telephone number

Info Trac 1-800-535-5053

1.5 Details of the Manufacturer

Company Identification Detectortesters (No Climb Products Ltd), Edison House, 163 Dixons Hill Road,

Welham Green, Hertfordshire. AL9 7JE. United Kingdom.

 Telephone
 +44 (0) 1707 282760

 Fax
 +44 (0) 1707 282777

 E-mail
 SDS@detectortesters.com

# **SECTION 2: HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance or mixture

US CFR 1910.1200 Not classified as dangerous for supply/use.

2.2 Label elements

Hazard Pictogram(s) None.
Signal Word(s) None.
Hazard Statement(s) None.
Precautionary Statement(s) None.

Other hazards None.

2.4 Additional Information Under normal conditions of battery use, internal components will not present a health or

environmental hazard.

In the extreme or adverse conditions (high over-charge, reverse charge, external short circuit),

some electrolyte leakage can occur by the safety vent.

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Mixtures

2.3

3.1.1 SOLO760, SOLO770

Hazardous Ingredient(s)	CAS No.	%W/W
Nickel dihydroxide	12054-48-7	<30
Potassium hydroxide	1310-58-3	<20
Sodium hydroxide	1310-73-2	<20

# 3.1.2 TRUTEST

Hazardous Ingredient(s)	CAS No.	%W/W
Metal hydride alloy	None	15 - 40
Nickel dihydroxide	12054-48-7	15 - 30
Potassium hydroxide	1310-58-3	3 - 15
Cobalt dihydroxide	21041-93-0	2.5 - 7

#### 3.2 Additional Information

For full text of H/P statements see section 16.

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# **Specialized Fire Products**

# Ni-MH Battery Pack

# **SECTION 4: FIRST AID MEASURES**



4.1 Description of first aid measures

> Inhalation Unlikely route of exposure.

> > Electrolyte leakage: Remove person to fresh air and keep comfortable for breathing.

None anticipated.

Skin Contact No measures required.

Electrolyte leakage: Take off immediately all contaminated clothing. Rinse skin with water/shower.

**Eve Contact** Unlikely route of exposure.

Electrolyte leakage: Rinse cautiously with water for several minutes.

Unlikely route of exposure. Ingestion

Electrolyte leakage: Make victim drink water. Do not induce vomiting. Call a POISON CENTER/doctor if you

feel unwell.

4.2 Most important symptoms and effects, both

acute and delayed

Electrolyte leakage: Causes severe skin burns and eye damage.

4.3 Indication of any immediate medical attention

and special treatment needed

Unlikely to be required but if necessary treat symptomatically.

#### **SECTION 5: FIREFIGHTING MEASURES**

Non-flammable.

5.2

7.3

Extinguishing media

Suitable Extinguishing media Unsuitable extinguishing media

Special hazards arising from the substance or mixture

5.3 Advice for fire-fighters Extinguish preferably with dry chemical, sand or carbon dioxide.

Water, Water spray.

Heating may cause pressure rise with risk of bursting. Hazardous

decomposition product(s): Nickel and cobalt compounds.

Fire fighters should wear complete protective clothing including self-

contained breathing apparatus.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Personal precautions, protective equipment

and emergency procedures

Ensure adequate ventilation. Stop leak if safe to do so.

Avoid inhalation of vapours. Avoid contact with skin and eyes. Use personal

protective equipment as required. Avoid release to the environment.

6.2 **Environmental precautions** 6.3

Methods and material for containment and

cleaning up

Collect mechanically and dispose of according to Section 13.

Electrolyte leakage: Neutralize with: weak acid such as vinegar or citric acid before proper disposal. In the event of accumulated electrolyte contain and

Do not obstruct safety vent by soldering or welding tabs on the positive top.

Store in a cool/low-temperature, well-ventilated (dry) place away from heat

neutralize spill.

6.4 Reference to other sections See Also Section 8.

# **SECTION 7: HANDLING AND STORAGE**

7.1 Precautions for safe handling

7.2 Conditions for safe storage, including any

> incompatibilities Storage temperature

Ambient. Stable under normal conditions.

and ignition sources.

Storage life Incompatible materials Specific end use(s)

None known.

Battery product.

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# Ni-MH Battery Pack

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Under normal conditions of battery use, internal components will not present a health or environmental hazard.

SUBSTANCE	CAS No.	LTEL (8 hr	LTEL (8 hr	STEL	STEL	Note
		TWA ppm)	TWA mg/m³)	(ppm)	(mg/m³)	
Nickel dihydroxide	12054-48-7	-	0.05	-	-	A1
Potassium hydroxide	1310-58-3	-	-	-	2	NIOSH
Sodium hydroxide	1310-73-2	-	-	-	2	NIOSH
		-	2	-	-	OSHA
Cobalt dihydroxide	21041-93-0	-	0.02	-	-	2B

NIOSH = National Institute of Occupational Safety & Health

OSHA = Occupational Safety and Health Administration

A1: Confirmed Human Carcinogen: The agent is carcinogenic to humans based on the weight of evidence from epidemiological studies.

Provide adequate ventilation.

2B: carcinogen designations, C: ceiling limit

8.2 Exposure controls

8.2.1 Appropriate engineering controls

8.2.2 Personal protection equipment

Eye/ face protection Not normally required.

Electrolyte leakage: Wear eye protection with side protection (EN166).

Skin protection (Hand protection/ Other)

Not normally required.

Electrolyte leakage: Wear impervious gloves (EN374).

Respiratory protection

No personal respiratory protective equipment normally required.

Electrolyte leakage: Wear suitable respiratory protective equipment.

(i)

Thermal hazards Not applicable.

**8.2.3 Environmental Exposure Controls** Avoid release to the environment.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Appearance Solid.
Colour. Not applic

Colour.Not applicable.OdourOdourless.Odour thresholdNot applicable.pHNot available.

Melting point/freezing point 391.73°F(199.85°C)(Nickel dihydroxide).

Initial boiling point and boiling range
Flash Point
Evaporation rate
Flammability (solid, gas)
Upper/lower flammability or explosive limits
Vapour pressure
Vapour density
Not available.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Relative density 237.2lb/ft³ @ 69.8°F (3.8g/cm³) (Nickel dihydroxide). Solubility(ies) Slightly soluble in: Water (Nickel dihydroxide).

Partition coefficient: n-octanol/water Not applicable.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not applicable.

Dynamic viscosity Not applicable.

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Kinematic Viscosity
Explosive properties
Oxidising properties
Other information
Not applicable.
Not explosive.
Not oxidising.
None.

#### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Reactivity Stable under normal conditions.
 10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous reactions
 10.4 Conditions to avoid
 No hazardous reactions known if used for its intended purpose.
 Keep away from heat and sources of ignition. Protect from moisture.

**10.5** Incompatible materials None known.

10.6 Hazardous decomposition product(s) No hazardous decomposition products known.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

This material is unlikely to present a significant health hazard under normal conditions of handling and use.

11.1 Information on toxicological effects

11.1.1 Article

Acute toxicity
Irritation
Corrosivity
Low acute toxicity.
Non-irritant.
Not classified.

Sensitisation It is not a skin sensitiser.

Repeated dose toxicity None anticipated.

Carcinogenicity No evidence of carcinogenicity.

**Mutagenicity** There is no evidence of mutagenic potential.

Toxicity for reproduction None anticipated.

11.2 Other information Contains: Nickel dihydroxide. Harmful if swallowed or if inhaled. Causes severe skin burns and

eye damage.

# **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity Under normal conditions of battery use, internal components will not present a health or environmental

hazard.Contains: Nickel dihydroxide. Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability Not applicable.
 12.3 Bioaccumulative potential Not applicable.
 12.4 Mobility in soil Not applicable.

12.6 Other adverse effects None.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods
 13.2 Additional Information
 Recover or recycle if possible. To be disposed of as hazardous waste.
 Disposal should be in accordance with local, state or national legislation.

#### **SECTION 14: TRANSPORT INFORMATION**

**14.1 UN number** UN 3496

**14.2 UN proper shipping name** Batteries, Nickel-metal hydride.

14.3 Transport hazard class(es)

TDG Not applicable under Special Provision: 97

IMDG Not applicable under Special Provision: SP117 & SP963

IATA Not applicable under Special Provision: A199

**DOT** Not applicable under Special Provision: 130, 49CFR 172.102

14.4 Packing group Not applicable.
 14.5 Environmental hazards Not applicable.
 14.6 Special precautions for user Not applicable.
 14.7 Transport in bulk according to Annex II of Not applicable.

MARPOL 73/78 and the IBC Code

14.8 Additional Information None.

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# **SECTION 15: REGULATORY INFORMATION**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**15.1.1** OSHA

Toxic and hazardous substances (29 CFR 1910; Subpart Z) Listed.: Sodium hydroxide (CAS No.: 1310-73-2)

National emission standards for hazardous air pollutants (40 CFR 61.01) All chemicals are not listed.

Title III Consolidated List of Lists

Listed.:

Nickel dihydroxide (CAS No.: 12054-48-7), Potassium hydroxide (CAS No.: 1310-58-3), Sodium hydroxide (CAS No.: 1310-73-2)

OSPAR List of Chemicals for Priority Action All chemicals are not listed

State Right to Know Lists New Jersey, Pennsylvania, Rhode Island,

Minnesota Listed.:

Nickel dihydroxide (CAS No.: 12054-48-7), Potassium hydroxide (CAS No.: 1310-58-3), Sodium hydroxide (CAS No.: 1310-73-2)

TSCA (Toxic Substance Control Act)

All chemicals listed.

Proposition 65 (California) Listed.: Nickel dihydroxide (CAS.: 12054-48-7)

CAA 602 - Ozone Depleting Substances (ODS)

All chemicals are not listed.

#### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements: 14.

NFPA		HMIS		
Health	0	Health	0	
Fire	1	Fire	1	
Instability	0	Instability	0	

#### **LEGEND**

LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
OSPAR Oslo and Paris Convention

CAA Clean Air Act

OSHA Occupational Safety and Health Administration
NIOSH National Institute of Occupational Safety & Health

# Disclaimers

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