

SAFETY DATA SHEET

SDS0090UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 2015/830

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

1.1 Product identifier

Product Name Ni-MH Battery Pack.

Trade Name SCORP50-XXX, SOLO760-XXX, SOLO770-XXX, TRUTEST

(XXX denotes customer variant).

CAS No. Article.
EINECS No. Article.
REACH Registration No. None assigned.

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

Identified Use(s)

Uses Advised Against

Battery product.

None known.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

Emergency Phone No. +44 (0) 1707 282760

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP)

Not classified as dangerous for supply/use.

Label elements According to Regulation (EC) No. 1272/2008 (CLP)

Hazard Pictogram(s)

Signal Word(s)

Hazard Statement(s)

Precautionary Statement(s)

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

2.2

2.3

EC Classification No. 1272/2008

3.1.1 SOLO760, SOLO770, SCORP50

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard symbol(s) and hazard statement(s)
Nickel dihydroxide	<30	12054-48-7	235-008-5	01-2119472435- 36-0000	GHS07, Acute Tox. 4; H302, Acute Tox. 4; H332, Skin Sens. 1; H317, Skin Irrit. 2; H315 GHS08, Muta. 2; H341, Resp. Sens. 1; H334, Carc. 1A; H350i, Repr. 1B; H360D, STOT RE 1; H372 GHS09, Aquatic Acute 1; H400, Aquatic Chronic 1; H410
Potassium hydroxide	<20	1310-58-3	215-181-3	01-2119487136- 33-0000	GHS05, Skin Corr. 1A; H314, GHS07, Acute Tox. 4; H302
Sodium hydroxide	<20	1310-73-2	215-185-5	01-2119457892- 27-0000	GHS05, Skin Corr. 1A; H314

3.1.2 TRUTEST

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard symbol(s) and hazard statement(s)
Metal hydride alloy	15 - 40	None	None	None assigned	GHS08, Carc. 2; H351, Resp. Sens. 1; H334, GHS07, Skin Sens. 1; H317
Nickel dihydroxide	15 - 30	12054-48-7	235-008-5	01-2119472435- 36-0000	GHS07, Acute Tox. 4; H302, Acute Tox. 4; H332, Skin Sens. 1; H317, Skin Irrit. 2; H315, GHS08, Muta. 2; H341, Resp. Sens. 1; H334, Carc. 1A; H350i, Repr. 1B; H360D, STOT RE 1; H372, GHS09, Aquatic Acute 1; H400, Aquatic Chronic 1; H410
Potassium hydroxide	3 - 15	1310-58-3	215-181-3	01-2119487136- 33-0000	GHS05, Skin Corr. 1A; H314, GHS07, Acute Tox. 4; H302
Cobalt dihydroxide	2.5 - 7	21041-93-0	244-166-4	01-2119517583- 39-0000	GHS07, Acute Tox. 4; H302; Acute Tox. 4; H332, Skin Sens. 1; H317, Eye Irrit. 2; H319, GHS08, Resp. Sens. 1, H334, GHS0, Aquatic Acute 1; H400, Aquatic Chronic 1; H410

3.2 Additional Information



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

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation Unlikely route of exposure.

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

Skin Contact No measures required.

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

water/shower.

Eye Contact Unlikely route of exposure.

Electrolyte leakage: Rinse cautiously with water for several minutes.

Unlikely route of exposure.

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

Ingestion

4.3 Indication of any immediate medical attention

and special treatment needed

None anticipated. Electrolyte leakage: Causes severe skin burns and eye damage.

Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

5.2

Extinguishing media 5.1

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.

Avoid release to the environment.

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.

6.2 **Environmental precautions**

Methods and material for containment and 6.3

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

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

disposal. In the event of accumulated electrolyte contain and neutralize spill.

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

See Also Section 8. 6.4 Reference to other sections

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling 7.1

7.2 Conditions for safe storage, including any

incompatibilities Storage temperature

Ambient. Stable under normal conditions. Storage life

Incompatible materials Specific end use(s) 7.3

None known. Battery product.

sources.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

8.1.1 Occupational E	xposure Limits					
SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Nickel dihydroxide	12054-48-7	-	0.1	-	-	WEL, Sk
Potassium hydroxide	1310-58-3	-	-	-	2	WEL
Sodium hydroxide	1310-73-2	-	-	-	2	WEL
Cobalt dihydroxide	21041-93-0	-	0.1	_	_	WFI

WEL: Workplace Exposure Limit (UK HSE EH40)

Sk - Can be absorbed through skin.

Biological limit value Not established. 8.1.2 8.1.3 PNECs and DNELs Not established. **Exposure controls** 8.2

Appropriate engineering controls 8.2.1

Provide adequate ventilation.



Personal protection equipment

Respiratory protection

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).

No personal respiratory protective equipment normally required. Electrolyte leakage: Wear suitable respiratory protective equipment.

Not applicable. Thermal hazards

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 applicable. Odourless. Odour Not applicable. Odour threshold Not available. рΗ

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

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

3.8g/cm³ @ 21°C (Nickel dihydroxide). Relative density Solubility(ies) Slightly soluble in: Water (Nickel dihydroxide).

Not applicable. Partition coefficient: n-octanol/water

Auto-ignition temperature Not applicable. **Decomposition Temperature** Not applicable. Dynamic viscosity Not applicable. Not applicable. Kinematic Viscosity Explosive properties Not explosive. Oxidising properties Not oxidising.

Other information None. 9.2

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 No hazardous reactions known if used for its intended purpose. 10.4 Conditions to avoid 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 Low acute toxicity. Irritation Non-irritant. Corrosivity 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
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 Not applicable.
 Not applicable.

12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB.

12.6 Other adverse effects None.

SECTION 13: DISPOSAL CONSIDERATIONS

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

13.2 Additional Information Waste code (batteries and accumulators): 16 06 01, 16 06 02, 16 06 03

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)

ADR Not applicable.

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

MARPOL 73/78 and the IBC Code

14.8 Additional Information None.

SECTION 15: REGULATORY INFORMATION

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

15.1.1 EU regulations

Authorisations and / or Restrictions On Use

Candidate List of Substances of Very High Concern for Authorisation

REACH: ANNEX XVII Restrictions on the manufacture, placing on the market and use of

certain dangerous substances, mixtures and articles

REACH: ANNEX XIV List of substances subject to authorisation

Community Rolling Action Plan (CoRAP)

15.1.2 National regulations

15.2 Chemical Safety Assessment

All chemicals are not listed.

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None known. Not applicable.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16. LEGEND

LTEL Long Term Exposure Limit STEL Short Term Exposure Limit DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration
PBT Persistent, Bioaccumulative and Toxic
vPvB very Persistent and very Bioaccumulative

Acute Tox. 4 Acute toxicity Category 4

Skin Sens. 1
Skin Corr. 1A
Skin Irrit. 2
Skin corrosion/irritation Category 1
Skin corrosion/irritation Category 1
Skin corrosion/irritation Category 2
Eye Irrit. 2
Serious eye damage/irritation Category 2

Muta. 2 Mutagenicity Category 2

Resp. Sens. 1 Respiratory/skin sensitization Category 1

Carc. 1A Carcinogenicity Category 1A
Carcinogen
Carcinogenicity Category 2
Repr. 1B Reproductive toxicity Category 1B

STOT RE 1 Specific target organ toxicity — repeated exposure Category 1
Aquatic Acute 1 Hazardous to the aquatic environment Acute Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment Chronic Category 1



Hazard Statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341 Suspected of causing genetic defects.

H341 Suspected of causing genetic defer H350i May cause cancer by inhalation. H351 Suspected of causing cancer.

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.

Disclaimers

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