



Solo 365 Battery Pack

Accessories – Servicing

Part No. SOLO 370-001-IPACK-001

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

1.1 Product identifier

Product Name	Solo 370
Trade Name	Solo 370-XXX (XXX denotes customer variant) Solo 365-XXX (included as the battery for device)
CAS No.	Mixture
EINECS No.	Mixture
REACH Registration No.	None assigned.



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

Identified Use(s)	Battery product.
Uses Advised Against	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	+49 7665 81 21 74
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
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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. The battery is a sealed unit and therefore the ingredients present have no hazard potential except in a situation where the battery has been violated or dismantled.
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2.2 Label elements

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

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

2.3 Other hazards

None

2.4 Additional Information

There is no hazard when the measures for handling and storage are followed. In case of cell damage, possible release of dangerous substances and a spontaneous flammable gas mixture may be released. Battery content must not get in contact with water. Contact with water liberates extremely flammable gases.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

EC Classification No. 1272/2008

Hazardous Ingredient(s)	%W/W	CAS No.	EC No.	REACH Registration No	Hazard Pictogram(s) and Hazard Statement(s)
Cobalt oxide	<15	1307-96-6	215-154-6	Not available	GHS06, H301, H330; GHS08, H317, H334; GHS09, H410.
Maganese dioxide	<15	1313-13-9	215-202-6	Not available	GHS07, H302+H332
Nickel Oxide	<15	313-99-1	215-215-7	Not available	GHS07, H317, H350i, H372; GHS08, H413
Electrolyte(*)	<15	None	None	None assigned	GHS05; GHS06, H301; GHS08, H314, H372;

(*) Main Ingredients: Lithium hexafluorophosphate, organic carbonates

3.2 Additional Infomation

During the charge process a lithium carbon intercalation phase is formed, which is highly flammable and corrosive, but not released under normal usage

Mercury content:	Hg<0.1mg/kg.
Cadmium content:	Cd<1mg/kg.
Lead content	Pb<10mg/kg

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



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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures



Inhalation	Unlikely route of exposure. Electrolyte leakage: Remove to fresh air immediately. Seek medical treatment.
Skin Contact	Unlikely route of exposure. Electrolyte leakage: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Eye Contact	Unlikely Rroute of exposure. Electrolyte leakage: Flush eyes with water for at least 15 minutes. Seek medical treatment
Ingestion	Unlikely route of exposure. Electrolyte leakage: Make victim drink plenty of water. Do not induce vomiting. Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

None anticipated Electrolyte leakage Can cause damage to the eyes and skin.

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

5.1 Extinguishing media

Suitable Extinguishing media	Extinguish preferably with dry chemical or sand.
Unsuitable extinguishing media	water.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition product(s) include: Hydrofluoric acid (upon contact with water), Hydrogen fluoride (HF) gas, Carbon monoxide and Carbon dioxide.

5.3 Advice for fire-fighters

In case of major fire and large quantities: A self contained breathing apparatus should be worn. If possible, remove cell(s) from fire fighting area. If heated above 125°C, cell(s) can explode/vent. Cell is not flammable but internal organic material will burn if the cell is incinerated.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use PPE. Avoid contact with skin, eyes or clothing. Avoid breathing fumes

6.2 Environmental precautions

Prevent entry into drains.



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6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8 and 13

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid mechanical damage to the cell. Do not open or disassemble.

Do not throw batteries in water.

Keep away from: Children

Avoid overheating.

Keep away from open flames, heat and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None anticipated.

7.3 Specific end use(s)

Battery product

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

8.1.1 Occupational Exposure Limits

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Cobalt oxide	1307-96-6	-	0.1	-	-	WEL,Sen
Manganese dioxide	1313-13-9	-	0.5	-	-	WEL
Nickel oxide	1313-99-1	-	0.5	-	-	WEL,Carc
Lithium hexafluorophosphate	21324-40-3	-	2.5	-	-	WEL,Corr
Carbon	7440-44-0	-	10	-	-	WEL

WEL: Workplace Exposure Limit (UK HSE EH40)

8.1.2 Biological limit value

Not established.

8.2 Exposure controls



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8.2.1 Appropriate engineering controls

Provide adequate ventilation.

8.2.2 Personal protection equipment

Eye/ face protection 	Not normally required. Electrolyte leakage: Wear eye/face protection.
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.
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.	Density	Not applicable.
Colour.	Not applicable.	Vapour density	Not applicable.
Odour	Odourless.	Relative density	Not applicable.
Odour Threshold	Not applicable	Solubility(ies)	Insoluble
pH	Not determined.	Partition Coefficient: n-Octanol/water	Not applicable.
Melting Point/ Freezing Point	Not applicable	Auto Ignition Point	Not applicable
Initial boiling point and boiling range	Not applicable	Decomposition Temperature	Not applicable
Flash Point	Not applicable	Kinematic Viscosity	Not applicable.
Evaporation rate	Not applicable	Explosive properties	Not explosive when used as intended
Flammability (solid, gas)	Non-flammable.	Oxidising properties	Not oxidising when used as intended
Upper/lower flammability or explosive limit	Not applicable.		
Vapour pressure	Not applicable.		



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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

Do not heat the product.

10.5 Incompatible materials

Stable under normal conditions

10.6 Hazardous decomposition product(s)

No hazardous decomposition products known when used as intended.

SECTION 11: TOXICOLOGICAL INFORMATION

Unlikely to cause harmful effects under normal conditions of handling and use.

11.1 Information on toxicological effects

Acute toxicity	Low acute toxicity.
Skin corrosion / irritation	Non-irritant
Serious eye damage / irritation	Not classified.
Respiratory or skin sensitization	It is not a skin sensitiser.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	None anticipated.
STOT - single exposure	Not classified
STOT - repeated exposure	Not classified
Aspiration hazard	None anticipated.

11.2 Other information

None.



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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

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

12.2 Persistence and degradability

Not applicable.

12.3 Bioaccumulative potential

Not applicable.

12.4 Mobility in soil

Not applicable.

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6 Other adverse effects

Do not flush spilt material into any public water system..

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Consult an accredited waste disposal contractor or the local authority for advice

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN 3480 (when supplied as Solo 370-XXX)

UN 3481 (when supplied as part of Solo 365-XXX)

14.2 UN proper shipping name

Lithium Ion Batteries (UN3480)

Lithium Ion Batteries packed with equipment (UN3481)

14.3 Transport hazard class(es)

ADR	Both UN3480 & UN3481 are NOT considered hazardous due to compliance to SP188
IMDG	Both UN3480 & UN3481 are NOT considered hazardous due to compliance to SP188
IATA	UN3480 (when supplied as Solo 370-XXX) UN 3481 (when supplied as part of Solo 365-XXX) Lithium-ion batteries in compliance with Section II of PI966
DOT	Not applicable



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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 MARPOL 73/78 and the IBC Code

Not applicable

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	All chemicals are not listed
Candidate List of Substances of Very High Concern for Authorisation	All chemicals are not listed
REACH: ANNEX XVII restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles	All chemicals are not listed
REACH: ANNEX XIV list of substances subject to authorisation	All chemicals are not listed
Community Rolling Action Plan (CoRAP)	None known.

15.1.2 National regulations

VOC-CH	0%
VOC-EU	0%

15.2 Chemical Safety Assessment

Not applicable



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SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: header.

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
VOC	Volatile Organic Compounds

Hazard Statement(s)

H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if swallowed.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H350i	May cause cancer by inhalation
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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Annex to the extended Safety Data Sheet (eSDS)

No information available.