

# SAFETY DATA SHEET

SDS0096UK

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	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 mix	5
	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.
	<b>-</b>	United Kingdom
	Telephone	+44 (0) 1707 282760
	Fax	+44 (0) 1707 282777
	E-mail	SDS@detectortesters.com
1.4	Emergency telephone number	. 44 (0) 4707 000700
	Emergency Phone No.	+44 (0) 1707 282760
SEC	TION 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.
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 Mixtures

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	1313-99-1	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 Information

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</th>

 Cadmium content:
 Cd<1mg/kg</td>

 Lead content:
 Pb<10mg/kg</td>

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

#### **SECTION 4: FIRST AID MEASURES**





	Inhalation Skin Contact	Unlikely route of exposure. Electrolyte leakage: Remove to fresh air immediately. Seek medical treatment. Unlikely route of exposure. Electrolyte leakage: After contact with skin, take off immediately all contaminated			
	Eye Contact	clothing, and wash immediately with plenty of water. Unlikely Rroute of exposure. Electrolyte leakage: Flush eyes with water for at least 15 minutes. Seek medical			
	Ingestion	treatment. Unlikely route of exposure. Electrolyte leakage: Make victim drink plenty of water. Do not induce vomiting. Seek			
4.2	Most important symptoms and effects, both	medical treatment. None anticipated.			
4.3	acute and delayed Indication of any immediate medical attention	Electrolyte leakage Can cause damage to the eyes and skin.			
4.5	and special treatment needed	Unlikely to be required but if necessary treat symptomatically.			
SEC	TION 5: FIREFIGHTING MEASURES				
5.1	Extinguishing media Suitable Extinguishing media	Extinguish preferably with dry chemical or sand.			
5.2	Unsuitable extinguishing media Special hazards arising from the substance or	Water. Hazardous decomposition product(s) include: Hydroflouric acid (upon contact with			
5.3	mixture Advice for fire-fighters	water), Hydrogen fluoride (HF) gas, Carbon monoxide and Carbon dioxide. 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.			
SEC	ION 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 6.3	Environmental precautions Methods and material for containment and	Prevent entry into drains. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a			
6.4	cleaning up Reference to other sections	container for disposal. See Also Section: 8, 13			
SEC	TION 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 7.3	Conditions for safe storage, including any incor Storage temperature Storage life Incompatible materials Specific end use(s)				

#### **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.

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m <sup>3</sup> )	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 hexaflourophosphate	21324-40-3	-	2.5	-	-	WEL,Corr
Carbon	7440-44-0	-	10	-	-	WEL

8.1.2 Biological limit value

Exposure controls 8.2

8.2.1

Not established.

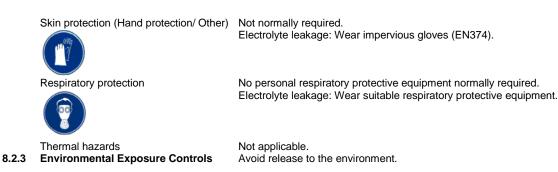
Provide adequate ventilation.

Appropriate engineering controls Personal protection equipment 8.2.2 Eye / face protection

Not normally required. Electrolyte leakage: Wear eye/face protection.







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

#### 9.1 Information on basic physical and chemical properties Appearance Solid

Appearance	Solid.
Colour	Not applicable.
Odour	Odourless.
Odour threshold	Not applicable.
рН	Not determined.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not applicable.
Flash Point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Density	Not applicable.
Vapour density	Not applicable.
Relative density	Not applicable.
Solubility(ies)	Insoluble
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Kinematic Viscosity	Not applicable.
Explosive properties	Not explosive when used as intended.
Oxidising properties	Not oxidising when used as intended.

#### **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 Skin corrosion / irritation Serious eye damage / irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard

Low acute toxicity. Non-irritant. Not classified. It is not a skin sensitiser. There is no evidence of mutagenic potential. No evidence of carcinogenicity. None anticipated. Not classified. None anticipated. None.

#### 11.2 Other information

#### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

- 12.2 Persistence and degradability
- 12.3 Bioaccumulative potential
- 12.4 Mobility in soil
- 12.5 Results of PBT and vPvB assessment
- 12.6 Other adverse effects

Under normal conditions of battery use, internal components will not present a health or environmental hazard. Not applicable. Not applicable Not classified as PBT or vPvB. Do not flush spilt material into any public water system.



SECT	TION 13: DISPOSAL CONSIDERATIONS		
13.1 13.2	Waste treatment methods Additional Information	Consult an accredited waste disposal cont Disposal should be in accordance with loc	
SECT	TION 14: TRANSPORT INFORMATION		
14.1	UN number	UN 3480 (when supplied as Solo 370-XX) UN 3481 (when supplied as part of Solo 3	
14.2	UN proper shipping name	Lithium Ion Batteries (UN3480) Lithium Ion Batteries packed with equipme	
14.3	Transport hazard class(es)		
	ADR		red hazardous due to compliance to SP188
			red hazardous due to compliance to SP188
	ΙΑΤΑ	UN3480 (when supplied as Solo 370-XXX UN 3481 (when supplied as part of Solo 3 with Section II of PI966	) 65-XXX) Lithium-ion batteries in compliance
	DOT	Not applicable.	
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.	
SECT	TION 15: REGULATORY INFORMATION		
15.1	Safety, health and environmental regulations/legi EU regulations	islation specific for the substance or mixt	ure
15.1.1	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 manufactur		
	dangerous substances, preparations and articles	-,	All chemicals are not listed.
	REACH: ANNEX XIV list of substances subject to au	Ithorisation	All chemicals are not listed.
	Community Rolling Action Plan (CoRAP)		None known.
15.1.2	National regulations		
	VOC-CH		0%
45.0	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: 10, 11.

# LEGENDLTELLong Term Exposure LimitSTELShort Term Exposure LimitDNELDerived No Effect LevelPNECPredicted No Effect ConcentrationPBTPersistent, Bioaccumulative and ToxicvPvBvery Persistent and very BioaccumulativeVOCVolatile Organic Compounds

#### Hazard Statement(s)

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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.

#### Disclaimers

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#### Annex to the extended Safety Data Sheet (eSDS)

No information available.