

## **SAFETY DATA SHEET**

SDS0096UK

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 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 365-001 (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

Uses Advised Against None known.

1.3 Only representative

Identified Use(s)

Company Identification Shift-Consult Hubert Scherzinger, 79108 Freiburg, Germany

Telephone +49 7665 81 21 74

Details of the supplier of the safety data sheet

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

Battery product.

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

Mon-Thur (08:30-17:00), Fri (08:30-15:00)

### **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.

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

Hazard Pictogram(s)

Signal Word(s)

Hazard Statement(s)

Precautionary Statement(s)

None.

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**

### 3.2 Mixtures

2.3

EC Classification No. 1272/2008

Hazardous	%W/W	CAS No.	EC No.	REACH	Hazard Pictogram(s) and Hazard Statement(s)	
Ingredient(s)				Registration No.		
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;	

<sup>(\*)</sup> Main Ingredients: Lithium hexafluorophosphate, organic carbonates

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### 3.3 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 Cadmium content: Cd<1mg/kg Lead content: Pb<10mg/kg

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

### **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.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special

Unlikely to be required but if necessary treat symptomatically.

treatment needed

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

Extinguishing media

Suitable Extinguishing media Extinguish preferably with dry chemical or sand.

Unsuitable extinguishing media

5.2 Special hazards arising from the substance or

mixture

Hazardous decomposition product(s) include: Hydroflouric 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.

Methods and material for containment and 6.3 cleaning up

container for disposal.

6.4 Reference to other sections See Also Section: 8, 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.

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

72 Conditions for safe storage, including any incompatibilities

Ambient

Storage temperature

Stable under normal conditions.

Storage life

None anticipated.

Incompatible materials

7.3 Specific end use(s) Battery product.

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### **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	21324-40-3	-	2.5	-	-	WEL,Corr
hexaflourophosphate						
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

**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.

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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 So

Colour Not applicable. Odour Odourless. Odour threshold Not applicable. 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. Not applicable. Density 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.

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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
 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.

### **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 365-001)

**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 UN 3480 (when supplied as Solo 370-XXX)

UN 3481 (when supplied as part of Solo 365-001) Lithium-ion batteries in compliance with Section II of PI966.

**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.

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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 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, preparations and articles

REACH: ANNEX XIV list of substances subject to authorisation

Community Rolling Action Plan (CoRAP)

15.1.2 National regulations

VOC-CH

VOC-EU

15.2 Chemical Safety Assessment

All chemicals are not listed. All chemicals are not listed. All chemicals are not listed.

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None known.

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Not applicable.

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

The following sections contain revisions or new statements: 1, 3.

### **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
PVB 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.

### **Disclaimers**

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

No information available.

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