

SAFETY DATA SHEET

SDS0096CA-EN

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

.1 Product identifier

Product Name Solo 370

Trade Name Solo 370-XXX (XXX denotes customer variant)

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)
Uses Advised Against
Battery product.
None 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

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

WHMIS Classification 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

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

2.3 Other hazards
 2.4 Additional Information
 None.
 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

Hazardous Ingredient(s)	%W/W	CAS No.
Cobalt oxide	<15	1307-96-6
Maganese dioxide	<15	1313-13-9
Nickel Oxide	<15	1313-99-1
Electrolyte(*)	<15	None

^(*) 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
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 route of exposure.

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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

Indication of any immediate medical attention and special treatment needed

None anticipated.

Electrolyte leakage Can cause damage to the eyes and skin. Unlikely to be required but if necessary treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

4.3

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

Water, Water spray.

Special hazards arising from the substance or 5.2

mixture Advice for fire-fighters 5.3

Hazardous decomposition product(s) include: Hydroflouric acid (upon contact with 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.2 **Environmental precautions**

6.3 Methods and material for containment and

cleaning up 6.4 Reference to other sections

Prevent entry into drains.

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

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

container for disposal. See Also Section: 8, 13

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling 7.1

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

Do not throw batteries in water. Keep away from: Children.

Conditions for safe storage, including any

incompatibilities

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

Storage temperature

Storage life

Ambient. Stable under normal conditions.

Avoid overheating.

Incompatible materials None anticipated.

Specific end use(s) Battery product. 7.3

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.

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	-	0.02	-	-	Canada (Ontario)
Manganese dioxide	1313-13-9	-	10	-	-	Canada (Ontario)
Nickel oxide	1313-99-1	-	0.2	-	-	Canada (Ontario)
Carbon	7440-44-0	_	3	-	-	Canada (Ontario)

Source:

8.2.2

8.2.3

7.2

CCOHS = Canadian Centre for Occupational Health and Safety

Règlement 833 (Canada, Ontario)

Exposure controls

Appropriate engineering controls 8.2.1

Provide adequate ventilation.

Personal protection equipment Not normally required.

Eye/ face protection

Electrolyte leakage: Wear eye/face protection.

Skin protection (Hand protection/ Other) Not normally required.

Electrolyte leakage: Wear impervious gloves.

Respiratory protection 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical

properties

Appearance Solid.

Colour Not applicable. Odour Odourless. Not applicable. Odour threshold 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. Vapour density Not applicable. Relative density Not applicable.

Solubility(ies) Insoluble Partition coefficient: n-octanol/water Not applicable. Not applicable. Auto-ignition temperature 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.

Possibility of hazardous reactions 10.3 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. See Section: 5

Firefighting measures

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

Other adverse effects Do not flush spilt material into any public water system. 12.5

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Consult an accredited waste disposal contractor or the local authority for advice. 13.1 **Additional Information** Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

UN number UN 3480 (when supplied as Solo 370-XXX) 14.1 UN 3481 (when supplied as part of Solo 365-001)

UN proper shipping name Lithium Ion Batteries (UN3480) 14.2 Lithium Ion Batteries packed with equipment (UN3481)

Transport hazard class(es) 14.3

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. UN 3480 (when supplied as Solo 370-XXX) IATA

UN 3481 (when supplied as part of Solo 365-001) 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

SECTION 15: REGULATORY INFORMATION

This product has been classified in accordance with HPR and the SDS contains all the information required by HPR.

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

15.1.1 Canadian Regulations

Domestic Substances List (DSL)

Export Control List

Priority Substances List (PSL)

All chemicals are not listed
All chemicals are not listed

Toxic Substances List Listed: Nickel Oxide (CAS.: 1313-99-1)

National Pollutant Release Inventory (NPRI)

Not applicable.

Substance List

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
OSPAR Oslo and Paris Convention

OSHA Occupational Safety and Health Administration

NFPA National Fire Protection Association
HMIS Hazardous Material Information System

DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration
VOC Volatile Organic Compounds

Disclaimers

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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