

SAFETY DATA SHEET

SDS0096US-EN

ACCORDING TO US CFR 1910.1200

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)

CAS No. Mixture. EINECS No. Mixture.

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

Identified Use(s)Battery product.Uses Advised AgainstNone 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 07753, 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

US CFR 1910.1200 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)

Signal Word(s)

Hazard Statement(s)

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

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

Revision: 3.1 Page: 1/5 Date: 29/06/2021



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.

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

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

Water, Water spray.

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

emergency procedures
6.2 Environmental precautions

Prevent entry into drains.

6.3 Methods and material for containment and

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

cleaning up

7.3

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.

7.2 Conditions for safe storage, including any incompatibilities Keep away from open flames, heat and sources of ignition.

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials

Specific end use(s)

None anticipated.

Battery product.

Revision: 3.1 Page: 2/5 Date: 29/06/2021



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	-	5*	-	-	OSHA,Sen,
Manganese dioxide	1313-13-9	-	5*	-	-	OSHA
Nickel oxide	1313-99-1	-	5*	-	-	OSHA,Carc
Carbon	7440-44-0	-	5*	-	-	OSHA

Source:

8.2.2

OSHA = Occupational Safety and Health Administration *Respirable Dust.

8.2 Exposure controls

8.2.1 Appropriate engineering controls Provide adequate ventilation.

Personal protection equipment

Eye/ face protection Not normally required.

Electrolyte leakage: Wear eye/face protection.

Skin protection (Hand protection/ Other) Not non

Not normally required.

Solid

Electrolyte leakage: Wear impervious gloves.

Respiratory protection

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



Appearance

Kinematic Viscosity

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

Colour Not applicable. Odour Odourless. Odour threshold Not applicable. Not determined. pΗ 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. Auto-ignition temperature Not applicable. **Decomposition Temperature** Not applicable.

Explosive properties Not explosive when used as intended. Oxidising properties Not oxidising when used as intended.

Revision: 3.1 Page: 3/5 Date: 29/06/2021

Not applicable.



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.

Conditions to avoid 10.4 Do not heat the product. Incompatible materials Stable under normal conditions. 10.5

Hazardous decomposition product(s) No hazardous decomposition products known when used as intended. See Section: 5 10.6

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

12.5 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.

UN 3480, UN 3481

SECTION 14: TRANSPORT INFORMATION

14 1 **UN** number UN 3480, UN3481 14.2 **UN** proper shipping name Batteries, Lithium Ion

14.3 Transport hazard class(es)

14.4

14.5 14.6 ADR Under special provision 188. **IMDG** Under special provision 188. **IATA**

DOT Not applicable. Packing group Not applicable. **Environmental hazards** Not applicable. Special precautions for user Not applicable. Not applicable.

Transport in bulk according to Annex II of 14.7

MARPOL 73/78 and the IBC Code

Revision: 3.1 Date: 29/06/2021 Page: 4/5



SECTION 15: REGULATORY INFORMATION

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

15.1.1 OSHA

Toxic and hazardous substances (29 CFR 1910; Subpart Z)

All chemicals are not listed National emission standards for hazardous air pollutants (40 CFR 61.01)

All chemicals are not listed

15.1.2 Title III Consolidated List of Lists Sec 313 Cobalt oxide (Cobalt compounds), Manganese dioxide (Manganese

compounds), Nickel oxide (Nickel compounds)

15.1.3 OSPAR List of Chemicals for Priority Action All chemicals are not listed

15.1.4 State Right to Know Lists Cobalt oxide (cobalt compounds) - New Jersey

Nickel oxide (nickel compounds) - New Jersey, Pennsylvania

15.1.5 TSCA (Toxic Substance Control Act) Cobalt oxide (Cas 1307-96-6), Manganese dioxide (Cas 1313-13-9),

Nickel oxide (Cas 1313-99-1), Carbon (Cas 7440-44-0).

15.1.6 Proposition 65 (California) Cobalt oxide (Cas 1307-96-6), Nickel oxide (Cas 1313-99-1)

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: None.

USA

NFPA		HMIS		
Health	0	Health	0	
Fire	1	Flammability	1	
Instability	0	Physical hazards	0	

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

The information is based on the best knowledge of SDi and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.

Annex to the extended Safety Data Sheet (eSDS)

No information available.

Revision: 3.1 Page: 5/5 Date: 29/06/2021