

SAFETY DATA SHEET

SDS0101US-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 TESTIFIRE XTR2 Li-ion Battery

Trade Name TESTIFIRE-BP-001, TESTIFIRE-BP-061 (Battery Product), TESTIFIRE-XTR2-

001, TESTIFIRE-XTR2-061 (included as the battery for device)

CAS No. Article. EINECS No. Article.

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

Identified Use(s)

Battery product.

Uses Advised Against None known.(See Section:7)

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) 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

The regulations for substances are not applicable, as cells or batteries are articles under the relevant definitions. The chemicals are contained in a sealed metal can, the risk of exposure only if the cell/battery is mechanically or electrically abused. The following chemicals are listed for information purposes only.

3.2 Mixtures

Hazardous Ingredient(s)	Molecular Formula	%W/W	CAS No.
Lithium transition metal oxide	Li _x MO ₂	37.2%	182442-95-1
Carbon (graphite)	С	21.0%	7782-42-5
Aluminium	Al	3.27%	7429-90-5
Copper	Cu	7.69%	7440-50-8

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Fe	13.53%	7439-89-6
C ₃ H ₄ O ₃	10.67%	96-49-1
$C_4H_8O_3$		623-53-0
C₃H ₆ O₃		616-38-6
F ₆ LiP		21324-40-3
	6.54%	Proprietry
	C ₃ H ₄ O ₃ C ₄ H ₈ O ₃ C ₃ H ₆ O ₃	C ₃ H ₄ O ₃ 10.67% C ₄ H ₈ O ₃ C ₃ H ₆ O ₃ F ₆ LiP

The UN GHS labelling information is not provided in this section as batteries are articles and therefore are exempted from the UN GHS labelling requirements.

3.3 Additional Information

Not applicable.

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, sand or carbon dioxide.

Unsuitable extinguishing media Water, Water spray.

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: Wear NIOSH approved SCBA & full protective equipment. 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

Chemical contents are sealed in a can. But if the battery is mechanically or electrically abused, contents may leak out. In such a case, take action as detailed below.

6.1 Personal precautions, protective equipment Use PPE. Avoid contact with skin, eyes or clothing. Avoid breathing fumes. and emergency procedures

6.2 **Environmental precautions** Prevent entry into drains.

Methods and material for containment and 6.3 Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a cleaning up

container for disposal.

6.4 Reference to other sections See Also Section: 8, 13

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SECTION 7: HANDLING AND STORAGE

When used correctly, Lithium-Ion Batteries are a safe and dependable source of power.

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 heat, sources of ignition and direct sunlight.

Do not modify batteries.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials Water

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.

8.2 Exposure controls

8.2.1 Appropriate engineering controlsNot required under normal use.

8.2.2 Personal protection equipment

Eye/ face protection Not required under normal use.

Skin protection (Hand protection/ Other)

Not required under normal use.

Electrolyte leakage: Wear impervious gloves.

Electrolyte leakage: Wear eye/face protection.

Respiratory protection

No personal respiratory protective equipment normally required.

Electrolyte leakage: Wear suitable respiratory protective equipment.

(i)

Thermal hazards Not applicable.

8.2.3 Environmental Exposure ControlsAvoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Partition coefficient: n-octanol/water

Auto-ignition temperature Decomposition Temperature

Appearance Solid.
Colour Not applicable.

Odour Odourless. Odour threshold Not applicable. Not determined. Not applicable. Melting point/freezing point Initial boiling point and boiling range Not applicable. Not applicable. Flash Point Not applicable. Evaporation rate Flammability (solid, gas) Non-flammable. Not applicable. Upper/lower flammability or explosive limits Not applicable. Vapour pressure Vapour density Not applicable. Relative density Not applicable. Solubility(ies) Insoluble

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Not applicable. Not applicable.

Not applicable.

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Kinematic Viscosity

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

SECTION 10: STABILITY AND REACTIVITY

Batteries utilize a chemical reaction and will over time show a deterioration in performance if stored for a long time without being used. Lithium ion batteries are contained in a sealed can and are sealed to avoid chemical release under normal conditions of use.

Not applicable.

10.1 Reactivity Stable under normal conditions. Avoid conditions in section 7

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 See section 7.

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. The chemicals in Section 3 are contained in a sealed can.

11.1 Information on toxicological effects

Acute toxicityLow acute toxicity.Skin corrosion/irritationNon-irritant.Serious eye damage/irritationNot 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
12.3 Bioaccumulative potential
12.4 Mobility in soil
Not applicable
Not applicable
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.

Lithium batteries are neither specifically listed nor exempted from Federal Environmental Protection Agency (US EPA) hazardous waste regulations.

13.2 Additional Information Open cells should be treated as hazardous waste. DO NOT INCINERATE or subject

the battery cell to temperatures exceeding 100°C/212°F.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number UN 3480 (when supplied as TESTIFIRE-BP-001 or TESTIFIRE-BP-061)

UN 3481 (when supplied as part of TESTIFIRE-XTR2-001 or TESTIFIRE-XTR2-061)

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 TESTIFIRE-BP-001 or TESTIFIRE-BP-061) Lithium-ion batteries in

compliance with Section IB of PI965.



DOT UN3481 (when supplied as TESTIFIRE-XTR2-001 or TESTIFIRE-XTR2-061) Lithium-ion

batteries in compliance with Section II of PI966.

DOT 49 CFR, Subchapter C, Part 171, Part 173.24, 173.24a and 173.185

14.4 Packing group
 14.5 Environmental hazards
 14.6 Special precautions for user
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 14.7 Not applicable.
 14.7 Not applicable.

SECTION 15: REGULATORY INFORMATION

The regulations for substances are not applicable, as cells or batteries are articles under the relevant definitions.

15.1.1 UN (United Nations) Recommendations on the Transport of Dangerous Goods Model Regulations, 7th revised

edition, New York and Geneva 2019, Ammendment 1, 2021.

15.1.2 ICAO (International Civil Aviation Organization) Technical Instructions for the safety transport of dangerous goods by air 2023-2024.

15.1.3 IATA (International Air Transport Organization) Dangerous Goods Regulations 64th Edition; Effective January 1st 2023.

15.1.4 ADR/RID 2023

15.1.5 IMO (International Maritime Organization): International Maritime Dangerous Goods (IMDG) Code 2023 Edition (Amendment

41/22).

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: Header.

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

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Annex to the extended Safety Data Sheet (eSDS)

No information available.

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