

# TESTIFIRE XTR2 LITHIUM ION BATTERY

## SAFETY DATA SHEET

SDS01011E

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH) & 1272/2008 (CLP) & 2020/878

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

<b>1.1 Product identifier</b>	
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.
REACH Registration No.	None assigned.
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	
Identified Use(s)	Battery product.
Uses Advised Against	None known.( See Section: 7)
<b>1.3 Only representative</b>	
Company Identification	Shift-Consult Hubert Scherzinger, 79108 Freiburg, Germany
Telephone	+49 7665 91 21 74
<b>Details of the supplier of the safety data sheet</b>	
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
<b>1.4 Emergency telephone number</b>	
Emergency Phone No.	+44 (0) 1707 282760
Mon-Thur (08:30-17:00), Fri (08:30-15:00)	

### SECTION 2: HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
<b>Regulation (EC) No. 1272/2008 (CLP)</b>	Batteries are articles and therefore exempted from the UN-GHS classification requirements. There are no GHS labelling requirements for articles.  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.
<b>2.2 Label elements</b>	According to Regulation (EC) No. 1272/2008 (CLP)
Hazard Pictogram(s)	Not applicable.
Signal Word(s)	Not applicable.
Hazard Statement(s)	Not applicable.
Precautionary Statement(s)	Not applicable.
<b>2.3 Other hazards</b>	None.
<b>2.4 Additional Information</b>	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.

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### 3.2 Mixtures

EC Classification No. 1272/2008

Hazardous Ingredient(s)	Molecular Formula	%W/W	CAS No.
Lithium transition metal oxide	$\text{Li}_x\text{MO}_2$	37.2%	182442-95-1
Carbon (graphite)	C	21.0%	7782-42-5
Aluminium	Al	3.27%	7429-90-5
Copper	Cu	7.69%	7440-50-8
Steel (can)	Fe	13.53%	7439-89-6
Electrolyte	$\text{C}_3\text{H}_4\text{O}_3$	10.67%	96-49-1
	$\text{C}_4\text{H}_8\text{O}_3$		623-53-0
	$\text{C}_3\text{H}_6\text{O}_3$		616-38-6
	$\text{F}_6\text{LiP}$		21324-40-3
Others		6.54%	Proprietary

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: Do not breathe Electrolyte. 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. Seek medical treatment.
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.

<b>4.2 Most important symptoms and effects, both acute and delayed</b>	None anticipated. Electrolyte leakage Can cause damage to the eyes and skin.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Unlikely to be required but if necessary treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

<b>5.1 Extinguishing media</b>	
Suitable Extinguishing media	Extinguish preferably with dry chemical or sand.
Unsuitable extinguishing media	Water.
<b>5.2 Special hazards arising from the substance or mixture</b>	Hazardous decomposition product(s) include: Hydrofluoric acid (upon contact with water), Hydrogen fluoride (HF) gas, Carbon monoxide and Carbon dioxide.
<b>5.3 Advice for fire-fighters</b>	A self contained breathing apparatus should be worn. If possible, remove cell(s) from fire fighting area. If heated above 100°C, cell(s) can explode/vent. Cell is not flammable but internal organic material will burn if the cell is incinerated. Vapours are heavier than air and may travel considerable distances to a source of ignition and flashback.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

The chemical contents of the battery are sealed in a can so cannot normally be released unless mechncially or electrically abused. The following information is for this situation.

<b>6.1 Personal precautions, protective equipment and</b>	Use PPE. Avoid contact with skin, eyes or clothing. Avoid breathing fumes. Wsh
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<b>6.2</b>	<b>Emergency procedures</b>	affected areas immediately.
<b>6.2</b>	<b>Environmental precautions</b>	Prevent entry into drains.
<b>6.3</b>	<b>Methods and material for containment and cleaning up</b>	Absorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.
<b>6.4</b>	<b>Reference to other sections</b>	See Also Section: 8, 13

### SECTION 7: HANDLING AND STORAGE

When used correctly, Lithium-Ion Batteries provide a safe and dependable source of power. However, if misused or abused, leaking, venting or in extreme cases explosion and/or fire may result.

<b>7.1</b>	<b>Precautions for safe handling</b>	Avoid mechanical damage to the cell. Do not open or disassemble. Do not throw batteries in water. Keep away from: Children. Do not heat or expose to direct sunlight. Avoid inserting batteries in reverse. Do not short circuit batteries
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>	Keep away from open flames, heat and sources of ignition.
	Storage temperature	Ambient.
	Storage life	Stable under normal conditions.
	Incompatible materials	None anticipated when sealed.
<b>7.3</b>	<b>Specific end use(s)</b>	Battery product.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1</b>	<b>Control parameters</b>	Under normal conditions of battery use, internal components will not present a health or environmental hazard.
<b>8.2</b>	<b>Exposure controls</b>	
<b>8.2.1</b>	<b>Appropriate engineering controls</b>	None required under normal use.
<b>8.2.2</b>	<b>Personal protection equipment</b>	
	Eye/ face protection	Not required under normal use. Electrolyte leakage: Wear eye/face protection.
		
	Skin protection (Hand protection/ Other)	Not required under normal use. Electrolyte leakage: Wear synthetic rubber gloves.
		
	Respiratory protection	Not required under normal use. Electrolyte leakage: Wear suitable respiratory protective equipment.
		
	Thermal hazards	Not applicable.
<b>8.2.3</b>	<b>Environmental Exposure Controls</b>	Avoid release to the environment.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>9.1</b>	<b>Information on basic physical and chemical properties</b>	
	Appearance	Solid battery pack.
	Colour	Not applicable.
	Odour	Not applicable.
	Odour threshold	Not applicable.
	pH	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.

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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

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.

<b>10.1 Reactivity</b>	Stable under normal conditions. Avoid conditions in section 7.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions known if used for its intended purpose.
<b>10.4 Conditions to avoid</b>	See section 7
<b>10.5 Incompatible materials</b>	Stable under normal conditions.
<b>10.6 Hazardous decomposition product(s)</b>	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.

<b>11.1 Information on toxicological effects</b>	
Acute toxicity	Not available.
Skin corrosion/irritation	Not available.
Serious eye damage/irritation	Not classified.
Respiratory or skin sensitization	It is not a skin sensitizer.
Germ cell mutagenicity	Not applicable.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	None anticipated.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	None anticipated.
<b>11.2 Other information</b>	None.

### SECTION 12: ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>	Under normal conditions of battery use, internal components will not present a health or environmental hazard.
<b>12.2 Persistence and degradability</b>	Not applicable.
<b>12.3 Bioaccumulative potential</b>	Not applicable.
<b>12.4 Mobility in soil</b>	Not applicable
<b>12.5 Results of PBT and vPvB assessment</b>	Not classified as PBT or vPvB.
<b>12.6 Endocrine Disrupting Properties</b>	Not applicable.
<b>12.7 Other adverse effects</b>	Do not flush spilled material into any public water system.

### SECTION 13: DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>	Consult an accredited waste disposal contractor or the local authority for advice. According to Directive 2002/96/EC and UK equivalent on WEEE, Annex II, batteries have to be removed from any separately collected WEEE. The batteries have to be treated according to the Battery directive 2006/66/EC and UK equivalent.
<b>13.2 Additional Information</b>	Open cells should be treated as hazardous waste. DO NOT INCINERATE or subject battery cell to temperatures exceeding 100°C (212°F)

## TESTIFIRE XTR2 LITHIUM ION BATTERY

### 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. UN 3481 (when supplied as TESTIFIRE-XTR2-001 or TESTIFIRE-XTR2-061) Lithium-ion batteries in compliance with Section II of PI966.
	DOT	DOT 49 CFR, Subchapter C, Part 171, Part 173.24, 173.24a and 173.185.
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.

### SECTION 15: REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
15.1.1	EU regulations	
	EU Battery Directive 2006/66/EC and Amendments	As a battery, this product is subject to Directive 2006/66/EC
	ADR/RID 2023	See Section 14.3
15.1.2	National regulations	None known.
	VOC-CH	0%
	VOC-EU	0%
15.2	Chemical Safety Assessment	Not applicable.

### 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
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Bioaccumulative
VOC	Volatile Organic Compounds

#### Disclaimers

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

No information available.