



Safety Data Sheet for High Voltage Extra Heavy Duty Battery

Document Number: SDS-6F22 (Version : 2016)

IDENTITY (As used on Label and List)

Note : Blank spaces are not permitted if any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION I – Identification

Manufacturer's Name : New Leader Battery Limited

Emergency & Information Phone No: 852 - 2790 6280

Address : Rm A, 4/F, Block 1, Camelpaint Building, 62 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.

Signature of Prepare (Optional)

SECTION II – Hazardous Ingredients

IMPORTANT NOTE : MPORTANT NOTE :

Use under normal conditions, the lithium battery is hermetically sealed.

Ingestion: Swallowing a battery can be harmful. Contents of an open battery can cause serious chemical burns of mouth, esophagus, and gastrointestinal tract. IMMEDIATELY SEE DOCTOR;

Inhalation: Contents of an open battery can cause respiratory irritation.

Skin Contact: Contents of an open battery can cause skin irritation/ or chemical burns.

Eye Contact: Contents of an open battery can cause severe irritation and chemical burns.

SECTION III - Composition

Substance Name	Chemical Identification CAS#	% Weight
Zinc	7440 - 66 – 6	20%
Carbon	1333 – 86 - 4	8%
Manganese Dioxide	1313 - 13 - 9	24%
Zinc Chloride (ZnCl₂)	7646 – 85 - 7	4%
Iron	7439 - 89 – 6	20%
Distilled Water	7732 – 18 - 5	16.15%
Ammonium Chloride	12125-02-9	0.5%
Brass	7440-50-8	2.35%
Polystyrene	9003-53-6	5%
Other	N/A	0.00%



Safety Data Sheet for High Voltage Extra Heavy Duty Battery

Document Number: SDS-6F22 (Version : 2016)

SECTION IV – First Aid Measures

Ingestion: Do not induce vomiting or give food or drink. Seek medical attention immediately. Call National Battery Ingestion Hotline for advice.

Inhalation: Provide fresh air and seek medical attention.

Skin Contact: Remove contaminated clothing and wash skin with soap and water. If a chemical burn occurs or if irritation persists, seek medical attention.

Eye Contact: Immediately flush eyes thoroughly with water for at least 15 minutes, lifting upper and lower lids, until no evidence of the chemical remains. Seek medical attention.

SECTION V – Fire-Fighting Measures

In case of fire, it is permissible to use any class of extinguishing medium on these batteries or their packing material. Cool exterior of batteries if exposed to fire to prevent rupture.

Fire fighters should wear self-contained breathing apparatus.

SECTION VI – Accidental Release Measures

To Cleanup leaking batteries:

Ventilation Requirements: Room ventilation may be required in areas where there are open or leaking batteries.

Eye Protection: Wear safety glasses with side shields if handling an open or leaking battery.

Gloves: Use neoprene or natural rubber gloves if handling an open or leaking battery.

Battery materials should be collected in a leak-proof container.

SECTION VII – Handling and Storage

Storage: Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.

Mechanical Containment: If potting or sealing the battery in an airtight or watertight container is required, consult your New Leader Battery Limited representative for precautionary suggestions. Batteries normally evolve hydrogen which, when combined with oxygen from the air can produce a combustible or explosive mixture unless vented. If such a mixture is present, short circuits, high temperature, or static sparks can cause an ignition.

Do not obstruct safety release vents on batteries. Encapsulation (potting) of batteries will not allow cell venting and can cause high pressure rupture.

Handling: Accidental short circuit for a few seconds will not seriously affect the battery. Prolonged short circuit will cause the battery to lose energy, and can cause the safety release vent to open. Sources of short circuits include jumbled batteries in bulk containers, metal jewelry, metal covered tables or metal belts used for assembly of batteries into devices.

Charging: This battery is manufactured in a charged state. It is not designed for recharging. Recharging can cause battery leakage or in some case, high pressure rupture. Inadvertent charging can occur if a battery is installed

January 2016



Safety Data Sheet for High Voltage Extra Heavy Duty Battery

Document Number: SDS-6F22 (Version : 2016)

backwards

SECTION XIII – Exposure Controls / Person Protection

Ventilation Requirements : N.A.

Respiratory Protection : N.A.

Eyes Protection : N.A.

Gloves : N.A under normal conditions

SECTION IX – Physical / Chemical Properties

Boiling Point : N.A.

pH : N.A.

Melting Point : N.A.

Vapor Pressure (mm Hg) : N.A.

Vapor Density (AIR = 1) : N.A.

Evaporation Rate (Butyl Acetate) : N.A.

Solubility in Water : N.A.

Appearance and Odor , Solid Object/ odor

SECTION X – Stability and reactivity

Stability:

Unstable Conditions to Avoid

Hazardous Decomposition or Byproducts

The Alkaline Button Battery do not meet any of the criteria established in 40 CFR 261.2 of reactivity

SECTION XI – Toxicological information : N.A.

SECTION XII – Ecological Information : N.A.

SECTION XIII – Disposal Method : Dispose of the batteries according to government regulations.



Safety Data Sheet for High Voltage Extra Heavy Duty Battery

Document Number: SDS-6F22 (Version : 2016)

SECTION XIV – Transport Information

The Batteries in all forms of transportation (e.g. Truck, air, or sea) must be packaged in a safe and responsible manner. Regulatory concerns from all agencies for safe packaging require that batteries be packaged in a manner that prevents short circuits and be contained in (Strong Carton / Packaging) that prevents spillage of contents.

Carbon Zinc Battery (sometime referred to as “**Dry Cell**” are not listed as dangerous goods under the **ADR** European Agreement Concerning the International Carriage of Dangerous Goods by Road, The IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, (2015 IATA Dangerous Goods Regulations 57th Edition), ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR). These batteries are not subject to the dangerous goods regulations provided they meet the requirement contained in the following special provisions.

Regulatory Parties	Special Provisions
ADR	Not Regulated
IMDG	Not Regulated
UN, ICAO	Not Regulated
US DOT	49 CFR 172.102 Provision 130
IATA,	A123,

All Carbon Zine Batteries are packed in such a way to prevent short circuits or the generation dangerous quantities of heat and meet the special provisions listed above. In addition, **The IATA Dangerous Goods Regulations ICAO Technical Instructions require the words “ Not Restricted” and the Special Provision No: A123 be provided on the air waybill, when an air waybill is issued.

SECTION XV – Regulatory Information: Batteries are not classified as dangerous goods by US Department of Transportation or the major international regulatory bodies and are therefore not regulated. SARA/TITLE III – As an article, this battery and its contents are not subject to the requirements of the Emergency Planning and Community Right to Know Act.

SECTION XVI – Other Information : Mercury <5ppm, Lead<1000ppm, Cadmium < 5ppm



Test Report

No.: HKHL1507029141JL

Date: JUL 08, 2015

Page 1 of 3

NEW LEADER BATTERY LTD.
FLAT A, 4/F, BLOCK 1, CAMELPAINT BUILDING, 62 HOI YUEN ROAD, KWUN TONG, KOWLOON,
HONG KONG

The following samples were submitted and identified on behalf of the client as:

9V HIGH VOLTAGE BATTERY

SGS Case No. : HKHL150700020682
Style / Item No. : 6F 22 NL
Manufacturer : NEW LEADER
Country of Origin : CHINA
Sample Receiving Date : JUL 02, 2015
Test Performing Date : JUL 02 – 08, 2015

Test Requested : Please refer to the result summary.

Test Method & Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) – Lead, Cadmium and Mercury Content (Selected part as specified by client)	PASS (Label required)

Signed for and on behalf of
SGS Hong Kong Ltd.

Che Wai Leuk, Jerry
Section Manager

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Test Report

No.: HKHL1507029141JL

Date: JUL 08, 2015

Page 2 of 3

Test Results :

European Directive 2006/66/EC and its amendments (Directive 2013/56/EU) – Lead, Cadmium and Mercury Content

Method : Acid digestion followed by Atomic Absorption Spectrometry analysis.

For portable batteries:

Test Item	Result (%)	Reporting Limit (%)	Labelling requirement (%)	Permissible Limit (%)
	1			
Lead (Pb)	0.0286 [#]	0.001	> 0.004	--
Cadmium (Cd)	ND	0.001	> 0.002	0.002 ^{##}
Mercury (Hg)	ND	0.0001	> 0.0005	0.0005
Comment	PASS	--	--	--

Sample Description :

1. 9V HIGH VOLTAGE BATTERY

- Note :
1. % = percentage by weight
 2. > = greater than
 3. ^{##} = Not applicable to portable batteries and accumulators intended to use in emergency and alarm systems, medical equipments and cordless power tools.
 4. [#] = According to Directive 2006/66/EC, the corresponding chemical symbol beneath the cross-out wheeled bin logo is required if the heavy metal content in batteries and accumulators exceeded the values specified under labeling requirements.
 5. ND = Not Detected

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Photo Appendix



*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



NO.2016253985

货物运输条件鉴定书
Certification
for Safe Transport of Chemical Goods

非限制性货物

样品名称： 锌锰层叠电池6F22 9V

Name of Goods: High Voltage Battery

送检单位： 肇庆新利达电池实业有限公司

生产单位： 肇庆新利达电池实业有限公司



上海化工研究院检测中心
(上海天科化工检测有限公司)

Shanghai Research Institute of Chemical Industry Testing Centre
(Shanghai TECH. Chemical Industry Testing Co.,Ltd)



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 2016253985

Page 1 / 3

样品名称 Name of Goods	中文 Chinese	锌锰层叠电池6F22 9V
	英文 English	High Voltage Battery
送检单位 Shipper	肇庆新利达电池实业有限公司	
生产单位 Manufacturer	肇庆新利达电池实业有限公司	
检查方法、程序 Inspection Methods and Procedures	国际海事组织《国际海运危险货物规则》(2014版) IMO International Maritime Dangerous Goods Code (2014Edition)	
样品外观与气味 Appearance & Odor	金黄色, 绿色双色金属外壳, 无臭 Golden and green Metal shell, Odorless	
IDENTIFICATION 鉴定结论 CONCLUSION	1. 危险性识别(Hazards identification) 无。 None.	
	2. 海运按照IMO IMDG Code办理的类项(Suggestion according to IMO IMDG Code) 可按非限制性货物条件办理。 The substance is not subject to IMO IMDG Code.	
备注 Comment	3. 包装要求(Packaging requirements) 无。 None.	
	<div style="display: flex; justify-content: space-between;"> <div>检查日期: 2015-12-28 Inspection Date: 2015-12-28</div> <div>签发日期: 2015-12-28 Issue Date: 2015-12-28</div> <div>生效日期: 2016-01-01 Valid Date: 2016-01-01</div> </div>	

批准
Approver: 张一冰

审核
Checker: 董学胜

主检
Appraiser: 刘婉卿

上海化工研究院检测中心
Shanghai Research Institute of Chemical Industry Testing Centre



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

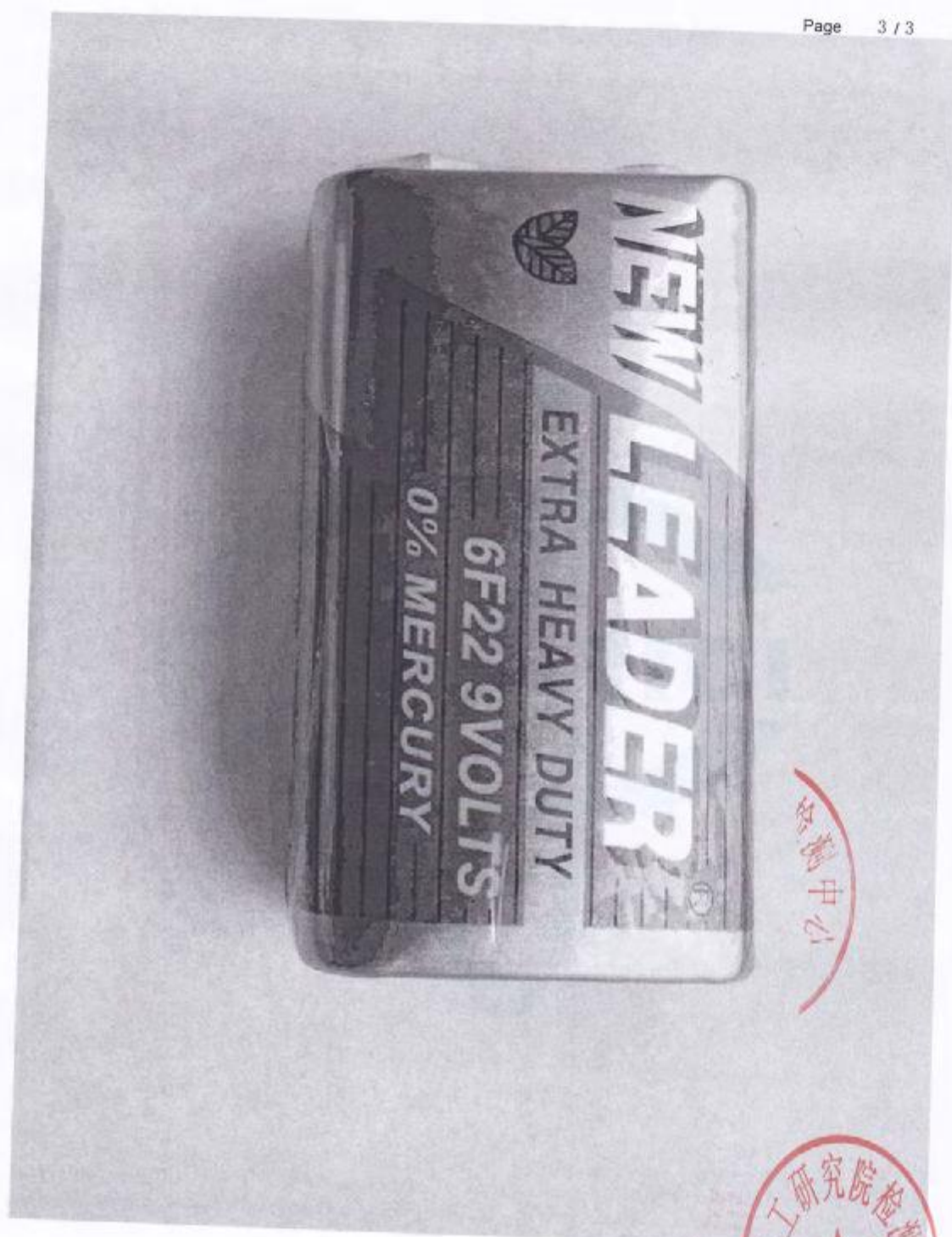
NO. 2016253985

Page 2 / 3

鉴定项目 Identification Item	鉴定结果 Identification Conclusion
爆炸危险性鉴定 Identification of Explosive Hazard	该货物不属于爆炸品。 The product is not classified in Explosives.
易燃危险性鉴定 Identification of Flammable Hazards	该货物不属于易燃危险品。 The product is not classified in flammable substance.
氧化危险性鉴定 Identification of Oxidative Hazards	该货物不属于氧化剂和有机过氧化物。 The product is not classified in oxidizing substances and organic peroxides.
毒害及传染危险性鉴定 Identification of Toxic & Infectious Hazards	该货物不属于有毒和传染性物质。 The product is not classified in toxic and infectious substances.
放射危险性鉴定 Identification of Radioactive Hazard	该货物无放射危险性。 The product is not classified in radioactive material.
腐蚀危险性鉴定 Identification of Corrosive Hazard	该货物不属于腐蚀品。 The product is not classified in corrosives.
其他危险性鉴定 Identification of other Hazards	这种电池须牢固在内包装中, 以有效防止短路和防止可导致短路的移动。 Such batteries must be packed in inner packagings in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.

研究院
★
(26)

上海化工研究院检测中心
Shanghai Research Institute of Chemical Industry Testing Centre





NO.2016012444



货物运输条件鉴定书
Certification
for Safe Transport of Chemical Goods

非限制性货物

样品名称： 锌锰层叠电池6F22 9V

Name of Goods: High Voltage Battery

送检单位： 肇庆新利达电池实业有限公司

生产单位： 肇庆新利达电池实业有限公司



上海化工研究院检测中心
(上海天科化工检测有限公司)

Shanghai Research Institute of Chemical Industry Testing Centre
(Shanghai TECH. Chemical Industry Testing Co.,Ltd)



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 2016012444

Page 1 / 3

样品名称 Name of Goods	中文 Chinese	锌锰层叠电池6F22 9V
	英文 English	High Voltage Battery
送检单位 Shipper	肇庆新利达电池实业有限公司	
生产单位 Manufacturer	肇庆新利达电池实业有限公司	
检查方法、程序 Inspection Methods and Procedures	国际航空运输协会《危险品规则》57版 IATA Dangerous Goods Regulations (DGR) 57th Edition	
样品外观与气味 Appearance & Odor	金黄色, 绿色双色金属外壳, 无臭 Golden and green Metal shell, Odorless	
IDENTIFICATION 鉴定结论	1. 危险性识别 (Hazards identification) 无。 None.	
	2. 空运按照IATA DGR办理的类项 (Suggestion according to IATA DGR) 可按非限制性货物条件办理。 The substance is not subject to IATA DGR.	
IDENTIFICATION 鉴定结论	3. 包装要求 (Packaging requirements) 无。 None.	
	<div style="display: flex; justify-content: space-between;"> <div>检查日期: 2015-12-02 Inspection Date:</div> <div>签发日期: 2015-12-06 Issue Date:</div> <div>生效日期: 2016-01-01 Valid Date:</div> </div>	
备注 Comment	无。 None.	

批准
Approver: 张一明

审核
Checker: 董学胜

主检
Appraiser: 刘婉卿

上海化工研究院检测中心
Shanghai Research Institute of Chemical Industry Testing Centre



货物运输条件鉴定书

Certification for Safe Transport of Chemical Goods

NO. 2016012444

Page 2 / 3

鉴定项目 Identification Item	鉴定结果 Identification Conclusion
爆炸危险性鉴定 Identification of Explosive Hazard	该货物不属于爆炸品。 The product is not classified in Explosives.
易燃危险性鉴定 Identification of Flammable Hazards	该货物不属于易燃危险品。 The product is not classified in flammable substance.
氧化危险性鉴定 Identification of Oxidative Hazards	该货物不属于氧化剂和有机过氧化物。 The product is not classified in oxidizing substances and organic peroxides.
毒害及传染危险性鉴定 Identification of Toxic & Infectious Hazards	该货物不属于有毒和传染性物质。 The product is not classified in toxic and infectious substances.
放射危险性鉴定 Identification of Radioactive Hazard	该货物无放射危险性。 The product is not classified in radioactive material.
腐蚀危险性鉴定 Identification of Corrosive Hazard	该货物不属于腐蚀品。 The product is not classified in corrosives.
其他危险性鉴定 Identification of other Hazards	这种电池须牢固在内包装中, 以有效防止短路和防止可导致短路的移动。 Such batteries must be packed in inner packagings in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.



上海化工研究院检测中心
Shanghai Research Institute of Chemical Industry Testing Centre

