Material Safety Data Sheet

1.Chemical Product and Company Identification

Product name: Auto Spray Mop Solution （170208）

Manufacturer: Hangzhou Xi'anda Antibacterial Technology Research Institute Co.,Ltd.

No.206, zhenhuaRd, Science and Technology Parks of the West Lake, Hangzhou

Tel:++86-571-85091016

Tax:++86-571-85092270

Emergency phone number:Tel:++86-571-85091016

2.Hazards Identification

To Skin: May cause rash/irritation in persons with sensitive

skin To Eyes: May cause irritation

Upon Inhalation: Not applicable

Upon Ingestion: Unlikely route of entry; no known hazards

3.Composition/Information Ingredients

	Ingredients	Percent（%）	CAS NO.	Function
1	Methylchloroisothiazolinone	0.0009	26172-55-4	Preservative
2	Methylisothiazolinone	0.0003	2682-20-4	Preservative
3	2-Bromo-2-nitropropane-1,3-diol	0.05	52-51-7	Antimicrobial
4	Ethoxydiglycol	0.20	111-90-0	Solvent
5	Propylene Glycol	0.30	57-55-6	Solvent
6	Laureth-12	0.10	3056-00-6	Surfactant
7	Ethanol	0.30	64-17-5	Solvent
8	Decyl glucoside	0.10	68515-73-1	Surfactant
9	Dimethicone	0.40	9006-65-9	Lubricant
10	Water	TO100	7732-18-5	Solvent

4.First-Aid Measures

Inhalation

In case of excessive inhalation, remove the person to fresh air and keep at rest in a comfortable position. Obtain medical advice immediately.

Skin contact

Remove contaminated clothing. Water off skin immediately with plenty of water, using soap if available. If any sign on tissue damage or persistent irritation is apparent, obtain medical advice immediately.

Eye contact

Immediately rinse the eyes with plenty of water. If any sign of tissue damage or persistent irritation is apparent obtain medical advice immediately.

Ingestion

Rinse mouth with water. Give a glass/cup of milk to drink. Do not induce vomiting. Obtain medical advice immediately.

5.Fire-Fighting Measures.

Extinguishing media

Carbon dioxide, foam, dry chemical.

Extinguishing media to avoid.

Never use a direct water jet.

6.Accidental Release Measures

Personal precautions

Gloves (Natural rubber if possible) should be worn when handling spillage.

No smoking. Avoid naked flames or other potential sources of ignition（e.g. electrical equipment）.

Avoid skin contamination and inhalation of vapor.

Ensure adequate ventilation in working areas following accidental release.

Environmental precautions

Do not discharge directly into drains, solid or the aquatic environment.

7.Handling and Storage

General handling conditions

Avoid contact with skin and eyes.

Wear suitable gloves (Natural rubber is preferred material) and eye/face protection.

No smoking. Avoid naked flames or other potential sources of ignition (e.g. electrical equipment).

Do not subject to unnecessarily to high temperature during processing.

Do not ingest or apply to the skin.

Good personal washing routines should be followed.

Maintain adequate ventilation in working areas.

Storage conditions

Store indoors at a constant temperature, if possible, preferably around 25℃ in dry, well ventilated conditions, in fully, sealed, opaque containers. Keep away from sources of ignition.

8.Exposure control/personal protection

Exposure control

Do not subject to unnecessarily with temperature during processing.

Maintain adequate ventilation in working area.

Personal protection

Respiratory protection: Where ventilation may be inadequate, wear self-contained breathing apparatus.

Eye protection**:** Where eye protection is indicated, safety goggles are recommended.

Skin protection: Depending on work situation, these should include wearing protection clothing, which will also limit the odor contamination of personal clothing.

Good personal washing routines should be followed.

9.Physical and Chemical Properties

Appearance: colorless to yellow transparent liquid

Water Solubility: soluble

Heavy Metal(As Pb), （mg/kg）：≤10

As, （mg/kg）： ≤2

10.Stability and Reactivity

Stability

Stable under normal conditions.

Materials to avoid

Strong acids, alkalis, oxidizing agents ， anionic surfactants.

11.Toxicological Data

Not determined.

12.Ecological Data

Not available.

13.Disposal Considerations

Burn in incinerator. Follow all relevant regulations for disposal.

14.Transport Information

This product is not Hazardous Material.

15.Regulatory Information

Not available.

16.Other information

Not available.

新利達電池有限公司
NEW LEADER BATTERY LIMITED.

Safety Data Sheet for Carbon Zinc Extra Heavy Duty R6P,R03P 0.%Hg

Document Number: SDS-R6P ,R03P	*****Not for recharge** 不可充電*** (Version : 2019)

SECTION 1 – Manufacturer Information 生產商資料
Manufacturer's Name 生產商 ：New Leader Battery Limited 新利達電池有限公司
Emergency & Information Phone No 緊急和資詢電話 : 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 2 – Hazardous Ingredients
IMPORTANT NOTE : Use under normal conditions, the Zinc Chloride Manganese battery is hermetically sealed. 鋅錳酸性電池在正常使用下是密封的 **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*;Do not induct vomiting or give food or drink. 誤服 ： 吞服電池是有害的,誤服了的電池會導致化學性燒傷,使食道嚴重灼傷,萬一誤服應立即盡快找就近的醫生診斷,不要給誤服者飲食或企圖把誤服之電池吐出 **Inhalation**: Contents of an open battery can cause respiratory irritation. 吸入 ：吸入了開封的電池會刺激呼吸道 **Skin Contact**: Contents of an open battery can cause skin irritation. 皮膚接觸 ： 接觸了開封的電池會導致皮膚過敏 **Eye Contact**: Contents of an open battery can cause severe irritation. 眼睛接觸 ： 如眼睛不慎接觸了已開封的電池會導致眼睛刺痛

SECTION 3 - Composition

Substance Name 名稱	***Chemical Identification CAS# 代號***	***% Weight***
Zinc 鋅	7440 - 66 – 6	28%
Carbon 炭	1333 – 86 - 4	8%
Manganese Dioxide 二氧化錳	1313 - 13 - 9	22%
Zinc Chloride 氯化鋅	7646 – 85 - 7	4%
Iron 鐵	7439 - 89 – 6	20%
Distilled Water 純水	7732 – 18 - 5	18%

新 利 達 電 池 有 限 公 司
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SECTION 4 – First Aid Measures 急救處理措施

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

誤服 ： 不要給誤服者飲食或企圖把誤服之電池吐出，應立即盡快找就近的醫生診斷,聯絡國際電池熱線尋求意見

Inhalation : Provide fresh air and seek medical attention.

吸入 ： 提供新鮮的空氣和盡快找就近的醫生診斷

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

皮膚接觸 ： 把受污染的衣物移走和應立即用肥皂水清洗患處

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.

眼睛接觸 ： 盡快用清水沖洗 15 分鐘,眨動上下眼皮,直至沒有化學物殘留在眼睛,盡快找就近的醫生診斷

SECTION 5 – 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.

如遇上電池所引發之火警，可用任何認可之滅火器救火和他們的包裝材料，請勿把破裂的電池投入火堆中，滅火時應穿上有自動提供氧氣的滅火衣

SECTION 6 – Accidental Release Measures 處理意外釋放或溢出之電池

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

通風設備 :如發生漏液或破損,應把電池移往室內通風地方

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

眼部護理 ： 應把已打開或漏液之電池,放入已盛載了水的水杯內

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

Battery materials should be collected in a leak-proof container

手套 ： 已打開或漏液之電池在處理時，應帶上橡膠手套和放入防漏之容器內

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SECTION 7 – Handling and Storage

Storage : Store in a cool, well ventilated area. Elevated temperatures can result in shortened battery life.
存放 ： 電池應存放在通風及清涼的地方,高温存放會縮短電池之壽命

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.
處理 ： 短暫短路對電池不會有嚴重之影響，短路時間會對電池之容量構成影響，產生高熱影響安全. 把其他電池或金屬物品混合和放在同一容器內,會對電池產生短路, 被破壞之池在結構內會形成短路

Charging: This battery is manufactured in a charged state. Its 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 backwards
充電 ： 電池在生產時已有足夠電量,此款電池設計是不適用在充電池上, 把電池再充電有機會令電池漏液及因高壓造成破壞, 如不慎把電池充電可令電池發生反充.

SECTION 8 – Exposure Controls / Person Protection 接觸控制/個人保護

Ventilation Requirements 通風系統之要求 : N.A.
Respiratory Protection 呼吸道保護: N.A..
Eyes Protection 眼睛保護 : N.A.
Gloves 手套 : N.A.

SECTION 9 – Physical / Chemical Properties 物理/化學特性

Boiling Point 沸點 : N.A.
Specific Gravity 比重 (H2O = 1) : N.A.
Melting Point 熔點 : N.A.
Vapor Pressure 蒸氣壓 (mm Hg) : N.A.
Vapor Density 蒸氣密度 (AIR = 1) : N.A.
Evaporation Rate (Buty1 Acetate) : N.A.
Solubility in Water 溶解度 : N.A.
Appearance and Odor 形狀和氣味 , Cylindrical Shape, Odorless 圓柱型 : 無氣味

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SECTION 10 – Stability and Reactivity 反應性數據
Stability 穩定性: stable 穩定
Conditions to Avoid 避免條件 : Stable 穩定
Hazardous Decomposition or Byproducts : 副產品或分解物是危險的
The Zinc Chloride Manganese Battery do not meet any of the criteria established in 40 CFR 261.2 of reactivity 鋅錳酸性電池的反應性達不到 40CFR 261.2 的標準

***SECTION 11–* Toxicological Information 毒物學的資料 : N.A.**

***SECTION 12–* Ecological Information 生態學的資料 : N.A.**

***SECTION 13–* Disposal Considerations :** Dispose of the batteries according to government regulations. Do not incinerate. Disposal should be in accordance with the EC Battery Directive 2006/66/EC.Battery are labeled with "special collection" symbol(as shown) in accordance with the EC Battery Directive:

***SECTION 14* – Transport Information 運輸資訊**

The Batteries in all forms of transportation (e.g. Truck, air, or sea) must be packaged in a safe and responsible manner. Regulatory concerns form all agencies for safe packaging require that batteries be packaged in s manner that prevents short circuits and be contained in (Strong Carton / Packaging) that prevents spillage of contents.
所有電池之運送方式(e.g.航運,空運和陸運),必須要已負責任之態度和安全包裝來運送.所有代理在監管安全包裝的問題上,電池必須要裝放在(加厚紙箱/包裝)防止短路和防電池溢出之包裝容器內.

Zinc Chloride 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, IATA Dangerous Goods Regulation, 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.
鋅錳酸性電池(有需要時可參考"干電池", 因干電池類在 **ADR** European Agreement Concerning the International Carriage of Dangerous Goods by Road, The IMDG International Maritime Dangerous Goods Code, UN Dangerous Good Regulations, IATA Dangerous Goods Regulation, ICAO Technical Instructions and the U.S. hazardous materials regulations (49 CFR)的危險品類別中. 此電池在下列的航運條例中也不屬於危險品:

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

Ref: Summary of Packing Instruction (IATA Dangerous Goods Regulations 60th Edition) the minimum requirements necessary to transport as non-restricted goods are as follows

總括在包裝指引(IATA 危險品條例 60 版), 在非違禁品運輸中最基本之要求如下:

All Zinc Chloride Manganese 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.

所有鋅錳酸性電池必需包裝在防止短路或在防止產生過熱之數量內和達到有關特別指引之要求下. 另外,有關國際危險品的規例中的 ICAO 技術指示 "Not Restricted"字眼, 在 A123 的特別條例中必須展示在空運提單中

***SECTION 15*– Regulatory Information:** Zinc Chloride Manganese 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.

在美國運輸局和主要國際之條例中, 鋅錳酸性電池是不介定在危險品的種類內.

SARA/TITLE III – 文章中, 此類電池沒有在有關急介定之項目中.

***SECTION 16* – Other Information :** None

January 2019

新利達電池有限公司
New Leader Battery Ltd.
香港九龍觀塘開源道62號駱駝漆大廈第一期四樓A座
Flat A, 4/F., Blk.1, Canelpaint Blk., 62, Hoi Yuen Rd., Kwun Tong, Kln., Hong Kong.
TEL:(852)27906280 FAX:(852)27634104 Website:www.newleader.com.hk E-mail:newleader@newleader.com.hk

QHK 01392

SECTION 1-Informations sur le fabricant

Nom du fabricant Nom du fabricant : New Leader Battery Limited New Leader Battery Limited

Numéro de téléphone d'urgence et d'information : 852-2790 6280

Adresse : Rm A, 4/F, bloc 1, bâtiment Camelpaint, 62 Hoi Yuen Road, Kwun Tong, Kowloon, Hong Kong.

Signature de préparer (facultatif)

SECTION 2 – Ingrédients dangereux

NOTE IMPORTANTE:

Utilisée dans des conditions normales, la batterie Zinc Chlorure Manganèse est hermétiquement fermée.

La batterie acide zinc-manganèse est scellée dans des conditions normales d'utilisation

Ingestion : L'ingestion d'une pile peut être nocive. Le contenu d'une pile ouverte peut provoquer de graves brûlures chimiques de la bouche, de l'œsophage et du tractus gastro-intestinal. CONSULTER IMMÉDIATEMENT UN MÉDECIN ; Ne pas faire vomir, ni donner à manger ni à boire.

Ingestion : La batterie est nocive en cas d'ingestion. Une batterie avalée par erreur peut provoquer des brûlures chimiques et de graves brûlures à l'œsophage. En cas d'ingestion par erreur, vous devez consulter le médecin le plus proche dès que possible. La batterie crache

Inhalation : Le contenu d'une batterie ouverte peut irriter les voies respiratoires.

Inhalation : L'inhalation de la batterie ouverte irritera les voies respiratoires

Contact avec la peau : Le contenu d'une batterie ouverte peut provoquer une irritation de la peau.

Contact avec la peau : Le contact avec des piles non scellées peut provoquer une irritation de la peau

Contact avec les yeux : Le contenu d'une batterie ouverte peut provoquer une irritation grave.

Contact avec les yeux : Si vous touchez accidentellement la batterie ouverte avec vos yeux, cela provoquera une irritation des yeux.

SECTION 3-Composition

Nom de la substance Identification chimique N° CAS Code % Poids

Zinc 7440-66 – 6 28 %

Carbone 1333-86-4 8%

Dioxyde de manganèse 1313-13-9 22%

Chlorure de zinc 7646-85-7 4%

Fer 7439-89 – 6 20%

Eau distillée 7732 – 18-5 18%

SECTION 4-Mesures de premiers soins

Ingestion : Ne pas faire vomir ni donner à manger ou à boire. Consulter immédiatement un médecin.

Appeler la ligne d'assistance téléphonique nationale pour l'ingestion de batteries pour obtenir des conseils.

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Ingestion : N'alimentez pas ou n'essayez pas de cracher la batterie qui a été ingérée par erreur. Vous devez consulter le médecin le plus proche pour un diagnostic dès que possible et contacter la hotline internationale de la batterie pour obtenir des conseils.
Inhalation : Fournir de l'air frais et consulter un médecin.
Inhalation : Fournissez de l'air frais et consultez le médecin le plus proche pour un diagnostic dès que possible
Contact avec la peau : Enlever les vêtements contaminés et laver la peau à l'eau et au savon. En cas de brûlure chimique ou si l'irritation persiste, consulter un médecin
Contact avec la peau : Enlevez les vêtements contaminés et lavez immédiatement la zone touchée à l'eau et au savon
Contact avec les yeux : Rincer immédiatement et abondamment les yeux avec de l'eau pendant au moins 15 minutes, en soulevant les paupières supérieures et inférieures, jusqu'à ce qu'il ne reste plus aucune trace du produit chimique.
Contact avec les yeux : Rincer à l'eau claire pendant 15 minutes dès que possible, cligner des paupières supérieures et inférieures jusqu'à ce qu'il n'y ait plus de résidu chimique dans les yeux, et consulter le médecin le plus proche pour un diagnostic dès que possible

SECTION 5 – Mesures de lutte contre l'incendie
En cas d'incendie, il est permis d'utiliser n'importe quelle classe de moyen d'extinction sur ces batteries ou leur matériau d'emballage. Refroidir l'extérieur des batteries si elles sont exposées au feu pour éviter la rupture.
Les pompiers doivent porter un appareil respiratoire autonome.
En cas d'incendie causé par une batterie, n'importe quel extincteur approuvé et leurs matériaux d'emballage peuvent être utilisés pour combattre l'incendie. Ne jetez pas la batterie endommagée dans le feu. Pour éteindre le feu, portez une combinaison d'extinction d'incendie avec alimentation en oxygène.

SECTION 6-Mesures en cas de rejet accidentel ou de débordement accidentel des batteries
Exigences de ventilation : la ventilation de la pièce peut être nécessaire dans les zones où il y a des batteries ouvertes ou qui fuient
Équipement de ventilation : En cas de fuite ou de dommage, déplacez la batterie dans un endroit aéré à l'intérieur
Protection des yeux : porter des lunettes de sécurité avec des écrans latéraux si vous manipulez une batterie ouverte ou qui fuit
Soins des yeux : placez déjà la batterie ouverte ou qui fuit dans un verre d'eau.
Gants : Utilisez des gants en néoprène ou en caoutchouc naturel si vous manipulez une batterie ouverte ou qui fuit.

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Les matériaux de la batterie doivent être collectés dans un conteneur étanche
Gants : lors de la manipulation de piles ouvertes ou qui fuient, portez des gants en caoutchouc et mettez-les dans un récipient étanche

SECTION 7 – Manipulation et stockage
Stockage : Stocker dans un endroit frais et bien ventilé. Des températures élevées peuvent réduire la durée de vie de la batterie.
Stockage: la batterie doit être stockée dans un endroit ventilé et frais, le stockage à haute température raccourcira la durée de vie de la batterie
Manipulation : un court-circuit accidentel pendant quelques secondes n'affectera pas sérieusement la batterie. Un court-circuit prolongé entraînera une perte d'énergie de la batterie et peut entraîner l'ouverture de l'évent de sécurité. Les sources de court-circuit comprennent les batteries enchevêtrées dans des conteneurs en vrac, des bijoux en métal , tables recouvertes de métal ou ceintures métalliques utilisées pour l'assemblage de batteries dans des appareils.
Manipulation : Un court-circuit n'aura pas d'impact sérieux sur la batterie. Le temps de court-circuit affectera la capacité de la batterie et une chaleur élevée affectera la sécurité. Le mélange d'autres batteries ou d'objets métalliques dans le même conteneur court-circuitera le batterie et être endommagé Le bassin formera un court-circuit dans la structure
Charge : Cette batterie est fabriquée dans un état chargé. Elle n'est pas conçue pour être rechargée. La recharge peut provoquer une fuite de la batterie ou, dans certains cas, une rupture à haute pression. Une charge accidentelle peut se produire si une batterie est installée à l'envers
Chargement : La batterie a suffisamment de puissance au moment de la production. Cette conception de batterie ne convient pas aux batteries rechargeables. La recharge de la batterie peut provoquer une fuite de la batterie et causer des dommages dus à la haute tension. Si la batterie est chargée accidentellement, la batterie peut être chargé à l'envers.

SECTION 8 – Contrôles de l'exposition / Protection des personnes
Exigences de ventilation : N.A.
Protection respiratoire: N.A..
Protection des yeux : N.A.
Gants : N.A.

SECTION 9-Propriétés physiques/chimiques
Point d'ébullition : N.A.
Densité (H2O = 1) : N.A.
Point de fusion : N.A.

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Pression de vapeur (mm Hg) : N.A.
Densité de vapeur (AIR = 1) : N.A.
Taux d'évaporation (acétate de buty1) : N.A.
Solubilité dans l'eau Solubilité : N.A.
Apparence et odeur, forme cylindrique, inodore : inodore

SECTION 10-Données réactives de stabilité et de réactivité
Stabilité : stable
Conditions à éviter : Stable
Décomposition ou sous-produits dangereux : les sous-produits ou sous-produits sont dangereux
La batterie au chlorure de zinc et au manganèse ne répond à aucun des critères établis dans 40 CFR 261.2 de réactivité
La réactivité de la batterie acide zinc-manganèse n'atteint pas la norme 40CFR 261.2

SECTION 11- Informations toxicologiques : N.A.

SECTION 12- Informations écologiques : N.A.

SECTION 13– Considérations relatives à l'élimination : Éliminez les piles conformément aux réglementations gouvernementales.
Ne pas incinérer. L'élimination doit être conforme

ARTICLE 14 – Informations relatives au transport
Les batteries dans toutes les formes de transport (par exemple, camion, air ou mer) doivent être emballées de manière sûre et responsable. Les préoccupations réglementaires de toutes les agences pour un emballage sûr exigent que les batteries soient emballées de manière à éviter les courts-circuits et (Carton solide / Emballage) qui empêche le renversement du contenu.
Toutes les méthodes de transport de la batterie (par exemple, expédition, transport aérien et transport terrestre) doivent être expédiées de manière responsable et dans un emballage sûr. Tous les agents doivent être placés dans (carton/emballage épais) pour éviter les problèmes d'emballage de sécurité. Dans un court-circuit et une batterie -récipient d'emballage étanche.
Les piles au chlorure de zinc (parfois appelées « piles sèches » ne sont pas répertoriées comme des marchandises dangereuses en vertu de l'Accord européen ADR concernant le transport international des marchandises dangereuses par route, le Code maritime international des marchandises dangereuses IMDG, le Règlement sur les marchandises dangereuses de l'ONU, le Règlement sur les marchandises dangereuses de l'IATA , les instructions techniques de l'OACI et la réglementation américaine sur les matières dangereuses

(49 CFR). Ces batteries ne sont pas soumises à la réglementation sur les marchandises dangereuses à condition qu'elles répondent aux exigences contenues dans les dispositions spéciales suivantes.
Batterie acide zinc-manganèse (voir « Batterie sèche » si nécessaire, car la batterie sèche est dans l'Accord européen ADR concernant le transport international des marchandises dangereuses par route, le Code maritime international des marchandises dangereuses IMDG, Règlement sur les marchandises dangereuses de l'ONU, Règlement sur les marchandises dangereuses de l'IATA , les instructions techniques de l'OACI et les réglementations américaines sur les matières dangereuses (49 CFR) sont classées comme marchandises dangereuses. Cette batterie n'est pas classée comme marchandise dangereuse dans les réglementations d'expédition suivantes :
Parties réglementaires Dispositions particulières
ADR non réglementé
IMDG non réglementé
ONU, OACI Non réglementé
US DOT 49 CFR 172.102 Disposition 130
IATA, A123,
Réf : Résumé des instructions d'emballage (IATA Dangerous Goods Regulations 58th Edition) les exigences minimales nécessaires pour transporter en tant que marchandises non restreintes sont les suivantes Résumées dans les directives d'emballage (IATA Dangerous Goods Regulations 58 Edition), les exigences les plus fondamentales pour le transport de marchandises non interdites sont les suivantes :
**Toutes les batteries au chlorure de zinc et au manganèse sont emballées de manière à empêcher les courts-circuits ou la génération de quantités dangereuses de chaleur et répondent aux dispositions spéciales énumérées ci-dessus. De plus, les instructions techniques de l'OACI sur les réglementations sur les marchandises dangereuses de l'IATA exigent les mots « non restreint » et que la disposition spéciale n° A123 soit indiquée sur la lettre de transport aérien, lorsqu'une lettre de transport aérien est émise.
Toutes les batteries acide zinc-manganèse doivent être emballées pour éviter les courts-circuits ou pour éviter la surchauffe et répondre aux exigences des directives spéciales pertinentes. les règlements doivent être indiqués dans la lettre de transport aérien

SECTION 15-- Informations réglementaires : Les piles au chlorure de zinc et au manganèse ne sont pas classées comme marchandises dangereuses par le département américain des Transports ou les principaux organismes de réglementation internationaux et ne sont donc pas réglementées.
SARA/TITLE III – En tant qu'article, cette batterie et son contenu ne sont pas soumis aux exigences de la loi sur la planification d'urgence et le droit communautaire à l'information.
Dans le Bureau des transports des États-Unis et dans les principales réglementations internationales, les batteries zinc-manganèse-acide ne sont pas classées comme marchandises dangereuses.
SARA/TITRE III-Dans l'article, ce type de batterie n'est pas inclus dans le projet lié à l'aide d'urgence.

新利達電池有限公司
New Leader Battery Ltd.
香港九龍觀塘開源道62號駱駝漆大廈第一期四樓A座
Flat A, 4/F., Blk.1, Canelpaint Blk., 62, Hoi Yuen Rd., Kwun Tong, Kln., Hong Kong.
TEL:(852)27906280 FAX:(852)27634104 Website:www.newleader.com.hk E-mail:newleader@newleader.com.hk

QHK 01392

SECTION 16 – Autres informations : Aucune

Safety Data Sheets (SDSs)

Client	NINGBO FEILU BATTERY CO.,LTD
Add. of Client	No.172, Xidian South Road, Xidian Town, Ninghai County, Ningbo , Zhejiang , China
Description	Zinc Manganese Dry Battery
Model /Type	R6(AA), R03(AAA), R14(C), R20(D), 6F22(9V), 4R25, 3R12, R1, R2
Manufacturer	NINGBO FEILU BATTERY CO.,LTD
Add. of Manufacturer	No.172, Xidian South Road, Xidian Town, Ninghai County, Ningbo , Zhejiang , China
Nominal Voltage	1.5V
Date of Receipt	2021-03-17
Laboratory	Dongguan ZRLK Testing Technology Co., Ltd.
Address	Building D, No.2, Jinyuyuan Mansion, No.18, Industrial West Road, Songshan Lake High-tech Industrial Development Zone, Dongguan, Guangdong, China

ZRLK WERCS Special Seal
ZRLK WERCS

Approved Signatory	Maggie.Gao	Maggie Gao
Inspected by	Ailis.Ma	Ailis Ma
Censored by	Lahm Peng	Lahm Peng

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product name: Zinc Manganese Dry Battery

Model: R6(AA), R03(AAA), R14(C), R20(D), 6F22(9V), 4R25, 3R12, R1, R2

Other means of identification

Synonyms:none

Recommended use of the chemical and restrictions on use

Recommended Use:Used in portabl electronic equipments;

Uses advidsed against:

a) Do not dismantle, open or shred Zinc Manganese Dry Battery.

b) Do not expose Zinc Manganese Dry Battery to heat or fire. Avoid storage in direct sunlight.

c) Do not short-circuit a Zinc Manganese Dry Battery. Do not store Zinc Manganese Dry Battery haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.

d) Do not remove a Zinc Manganese Dry Battery from its original packaging until required for use.

e) Do not subject Zinc Manganese Dry Battery to mechanical shock.

f) In the event of a Zinc Manganese Dry Battery leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.

g) Observe the plus (+) and minus (–) marks on the Zinc Manganese Dry Battery and equipment and ensure correct use.

h) Battery usage by children should be supervised.

i) Seek medical advice immediately if an Zinc Manganese Dry Battery has been swallowed.

j) Keep batteries clean and dry.

k) When possible, remove the battery from the equipment when not in use.

l) Dispose of properly.

Details of the supplier of the safety data sheet:

Supplier Name: NINGBO FEILU BATTERY CO.,LTD

Address: No.172, Xidian South Road, Xidian Town, Ninghai County, Ningbo , Zhejiang , China

Telephone number of the supplier: 0086-0574-65303799

E-mail address: 1293176900@qq.com

Code postal: 315000

Emergency telephone number

Company Emergency Phone Number: 0086-0574-65303799

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Dermal	Category 3
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 1

GHS Label elements, including precautionary statements

Danger

Hazard statements

Toxic in contact with skin

Causes serious eye irritation

Suspected of causing cancer

Causes damage to organs through prolonged or repeated exposure

Precautionary statements-Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wear protective gloves/protective clothing/eye protection/face protection

Wash face, hands and any exposed skin thoroughly after handling

Do not breathe dust/fume/gas/mist/vapors/spray

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Skin

IF ON SKIN: Wash with plenty of water and soap

Call a POISON CENTER or doctor if you feel unwell

Take off immediately all contaminated clothing and wash it before reuse

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other information

harmful if swallowed. Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterixation: Mixtures

Description:

Product: Consisting of the following components.

Common Chemical Name	Concentration (%)	CAS Number
Manganese dioxide	38	1313-13-9
Potassium hydroxide	4	1310-58-3
Graphite	5	7782-42-5
Iron	31.7	7439-89-6
Zinc	9.8	7440-66-6
Zinc oxide	1	1314-13-2
Carbon	5	7440-44-0
Copper	5	7440-50-8
Carbonate, methyl ethyl	0.5	623-53-0

Note: CAS number is Chemical Abstract Service Registry Number.

N/A=Not apply.

4. FIRST-AID MEASURES

First aid measures

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact Remove contaminated clothing and shoes. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Swallowing Do not induce vomiting. Get medical attention.

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

CO2, dry chemical powder, water spray.

Unsuitable Extinguishing Media:No information available.

Specific Hazards Arising from the Chemical

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide(CO)

Carbon dioxide

Other irritating and toxic gases.

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge No

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. For example: Wear self-contained respiratory protective device. Wear suitable protective clothing and eye/face protection.

Special hazards arising from the substance or mixture:

The leaking electrolyte may corrosive. Under the conditions of short-circuited, overcharged, overdischarged, punctured, crushed, put into the fire and exposed on the temperature higher than that specified by manufacture(100℃), the battery may burn or explode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with eyes.

Refer to section 8 for personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Evacuate personnel to safe areas.

Environmental precautions

Environmental Precautions Refer to protective measures listed in Sections 7 and 8.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning up Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other Non combustible absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Wash thoroughly after handling. Use this material with adequate ventilation.
The product is not explosive.

Conditions for safe storage, including any incompatibilities

The storage area should be clean, cool, dry, ventilated and weatherproof. Incompatibilities: strong oxidizing agents, corrosives and foods. Such batteries must be packed in inner packaging in such a manner as to effectively prevent short circuits and to prevent movement which could lead to short circuits.
For normal storage, the temperature should be between +10℃ and +25℃ and never exceed +30℃. Extremes of humidity (over 95% and below 40% relative humidity) for sustained periods should be avoided since they are detrimental to both batteries and packaging. Batteries should therefore not be stored next to radiators or boilers, nor in direct sunlight.
The above recommendations are equally valid for storage conditions during prolonged transit. Thus, Batteries shall be stowed away from ships' engines and not left for long periods in unventilated metal box cars during summer.

Incompatible Products None known.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters

none

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962(11th Cir., 1992).

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ensure adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/Face Protection:

Tightly sealed goggles

Body protection:

Protective work clothing.

Skin protection:

Protective gloves

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the

resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Form: Cylindrical
	Color: Silvery
	Odour: Monotony
	Odor Threshold: No information available
Change in condition:	
pH, with indication of the concentration	Not determined.
Melting point/freezing point	Not determined.
Initial boiling point and Boiling range:	Not determined.
Flash Point	Not determined.
Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Vapor Pressure:	Not determined.
Vapor Density:	Not determined.
relative density:	Not determined.
Solubility in Water:	Not determined.
Solubility in other solvents	Not determined.
n-octanol/water partition coefficient	Not determined.
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined.
Odout threshold	Not determined.
Evaporation rate	Not determined.
Viscosity	Not determined.
Other Information	No further relevant information available.

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage and handling conditions (see section 7, Handling and storage).
Chemical stability: Stable under normal conditions of use, storage and transport.
Thermal decomposition/conditions to be avoided: No decomposition if used according to specifications.
Possibility of Hazardous Reactions: None under normal processing.
Hazardous Polymerization: Hazardous polymerization does not occur.
Conditions to avoid: Strong heating, fire, Incompatible materials.
Incompatible materials: Strong oxidizing agents. Strong acids.Base metals.
Hazardous Decomposition Products: Carbon oxides, Other irritating and toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute toxiciy: No data available.
Skin corrosion/irritation: No irritant effect.
Serious eye damage/irritation: Cause serious eye irritation.
Respiratory or skin sensitization: No sensitizing effects known.
Specific target organ system toxicity: No information available.
CMR effects(carcinogenity, mutagenicity and toxicity for reproduction): No information available.

12. Ecological Information

Toxicity:

Acquatic toxicity:
No further relevant information available.

Persistence and degradability: No further relevant information available.
Bioaccumulative potential: No further relevant information available.
Mobility in soil: No further relevant information available.
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

· **Waste treatment methods**
Recommendation: Must not be disposed together with household garbage.
Do not allow product to reach sewage system
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Land transport

ADR/RID class: Not regulated.

Maritime transport

Non-Hazardous for sea transport: Non-hazardous for sea transport.

Air transport

Not restricted to IATA DGR according to special provision A123.

The Panasonic Zinc Manganese Dry Battery according to SP A 123 of the 2018 IATA Dangerous Goods regulations 59th Edition may be transported. and applicable U.S. DOT regulations for the safe transport of Panasonic Zinc Manganese Dry Battery.

The packaging shall be adequate to avoid mechanical damage during transport, handling and stacking. The materials and pack design shall be chosen so as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of moisture.

The Nickel-cadmium rechargeable batter having the potential of a dangerous evolution of heat must be prepared for transport so as to prevent: (a) a short-circuit (e.g. in the case of batteries, by the effective insulation of exposed terminals; or, in the case of equipment, by disconnection of the battery and protection of exposed terminals); and

(b) Accidental activation.

The words “Not Restricted” and the Special Provision number must be included in the description of the substance on the Air Waybill as required by 8.2.6, when an Air Waybill is issued.

The package must be handled with care and that a flammability hazard exists if the package is damaged;

15. REGULATORY INFORMATION

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

EU Regulation:

Authorisations: No information available.

Restrictions on use: No information available.

Regulatory information

CAS No.	EU (EINECS)	**US (TSCA)**	**Japan (ENCS)**	**Canada (DSL/ NDSL)**	**Austrlia (AICS)**	**Korea (ECL)**	**China (IECSC)**
1313-13-9	Listed	Not listed	Not listed	NDSL	Not listed	Not listed	Not listed
1310-58-3	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7782-42-5	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7439-89-6	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
7440-66-6	Not listed	Listed	Not listed	DSL	Listed	Listed	Listed
1314-13-2	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7440-44-0	Listed	Listed	Listed	DSL	Listed	Listed	Listed
7440-50-8	Listed	Listed	Listed	DSL	Listed	Listed	Listed
623-53-0	Listed	Listed	Listed	DSL	Listed	Listed	Listed

Chemical safety assessment A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

R20/22: Harmful by inhalation and if swallowed.

R36: Irritating to eyes.

H302: Harmful if swallowed.

**********End of SDS**********