SAFETY DATA SHEET

LONGEST/EB TYPE BATTERY

Infosafe No.: MTZFR ISSUED Date: 31/05/2019 **ISSUED by: YHI POWER**

1. Identification

GHS Product Identifier

LONGEST/EB TYPE BATTERY

Company name

YHI POWER

Address

20-22 Venture Way, Braeside VIC 3195 AUSTRALIA

Telephone/Fax Number

Tel: +61 3 9588 1888 Fax: +61 3 9588 0838

E-mail Address

adminvic@yhipower.com.au

Recommended use of the chemical and restrictions on use

Electric Storage Battery.

2. Hazard Identification

GHS classification of the substance/mixture

Acute Toxicity - Inhalation: Category 4

Carcinogenicity category 1B Eye Damage/Irritation: Category 1 Germ Cell Mutagenicity: Category 2 Skin Corrosion/Irritation: Category 1 STOT Repeated Exposure: Category 1 STOT Single Exposure: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H341 Suspected of causing genetic defects.

H350 May cause cancer (inhalation).

H370 Causes damage to organs / Specific target organ toxicity - single exposure; Respiratory tract irritation.

H372 Causes damage to organs (Hematopoietic system, kidney, central nervous system, peripheral nervous system, cardiovascular system, immune system, respiratory). through prolonged or repeated exposure.

Pictogram (s)

Health hazard, Corrosion, Exclamation mark



Precautionary statement - Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P271 Use only outdoors or in a wellventilated area.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P270 Do not eat, drink or smoke when using this product

Precautionary statement - Response

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P310 Immediately call a POISON CENTER or doctor/physician.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

Precautionary statement - Storage

P405 Store locked up.

Precautionary statement - Disposal

P501 Dispose of contents/container to in accordance with local/regional/national regulations..

3. Composition/information on ingredients

Ingredients

Name	CAS	Proportion
Lead	7439-92-1	66-68 %
Antimony	7440-36-0	0.5-1.5 %
Separator	Not Available	2-3 %

Other Information

Chemical name / Synonym / CAS No. or ID / Content (%) Antimony 7440-36-0 0.5 - 1.5 Sulfuric acid / Oil of vitriol 7664-93-9 20 - 23 Polypropylene / PP Resin 9003-07-0 7 - 10

4. First-aid measures

Inhalation

If a battery ruptures, move to fresh air in case of accidental inhalation of mist. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. GET MEDICAL ATTENTION AS SOON AS POSSIBLE.

Ingestion

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If solutions of a battery chemicals have been swallowed and the person is conscious, give one glass of water. Vomiting may occur spontaneously, but Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

GET MEDICAL ATTENTION IMMEDIATELY.

^{*} European Inventory of Existing Commercial Chemical Substances (EINECS).

Skin

If a battery ruptures, do not rub or scratch exposed skin. If liquid get on the skin, immediately flush the contaminated skin with water for at least 15 minutes. If liquid penetrate through the clothing, immediately remove the clothing and shoes under a safety shower and continue to wash the skin for at least 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY.

Eye contact

If a battery ruptures, do not rub or scratch exposed eye. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. GET MEDICAL ATTENTION IMMEDIATELY.

Indication of immediate medical attention and special treatment needed if necessary

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

Most important symptoms/effects, acute and delayed

EYES: Not a likely route of exposure. If a battery ruptures, direct contact with the liquid or exposure to vapors or mists may cause tearing, redness, swelling, corneal damage and irreversible eye damage. Splashes in the eyes will cause severe burns.

SKIN: Not a likely route of exposure. Direct contact with internal components of a battery can be severely irritating to the skin and may result in redness, swelling, burns and severe skin damage. Skin contact may aggravate an existing dermatitis condition.

INHALATION: Not a likely route of exposure. If a battery ruptures, may be harmful or fatal if inhaled in a confined area. May cause severe irritation and burns of the nose, throat and respiratory tract.

INGESTION: Not a likely route of exposure. Causes serious burns of the mouth or perforation of the esophagus or stomach. May be fatal if swallowed.

* Lead may causes toxic to blood, kidneys, central nervous system (CNS). Repeated or prolonged exposure to lead can produce target organs damage.

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

If a battery ruptures, use dry chemical, soda ash, lime, sand or carbon dioxide.

Special Protective Equipment for fire fighters

Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing.

Specific Hazards Arising From The Chemical

Lead, lead compounds and sulfuric acid fume may be released during a fire involving the product.

FIRE AND EXPLOSION HAZARD: Not flammable.

Battery may rupture due to pressure buildup when exposed to excessive heat and may be result in the release of corrosive materials.

Decomposition Temperature

Not available.

Note: These physical properties are typical values for this product.

Not applicable.

Note: These physical properties are typical values for Lead(Pb).

6. Accidental release measures

Emergency Procedures

NECESSARY MEASURES AND PROTECTIVE GEAR TO PROTECT HUMANS:

If a battery ruptures, avoid contact with skin, eyes and clothing. Do not touch spilled material. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection

Clean-up Methods - Small Spillages

Collect all released material in a plastic lined metal container. If necessary neutralize the residue with a dilute solution of sodium carbonate.

Wash affected area.

Clean-up Methods - Large Spillages

Contain liquid using absorbent material, by digging trenches or by building a dike. Absorb with dry earth, sand or other non-combustible material. Neutralize the residue with a dilute solution of sodium carbonate.

Dispose of all contaminated materials in accordance with current local regulations.

Environmental Precautions

Notify authorities and appropriate federal, state, and local agencies. Prevent the product from spreading into the environment. Avoid direct discharge into drains.

7. Handling and storage

Precautions for Safe Handling

Protect from physical damage.

Conditions for safe storage, including any incompatibilities

(INCLUDING ANY INCOMPATIBILITIES):

Avoid contact with eyes. Store in a cool, dry, ventilated area away from sources of heat, moisture, incompatibilities, and direct sunlight. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

8. Exposure controls/personal protection

Occupational exposure limit values

OCCUPATIONAL EXPOSURE LIMIT(S), BIOLOGICAL EXPOSURE STANDARD OSHA-PEL: 0.05 mg/m3 (Lead), 1 mg/m3 (Sulfuric acid), 0.5 mg/m3 (Antimony)

ACGIH-TLV:

TWA 0.05 mg/m3 (Lead), TWA 0.2 mg/m3 (Sulfuric acid)

TWA 0.5 mg/m3(Antimony)

Appropriate engineering controls

Use local exhaust ventilation if necessary to control airborne mist and vapor.

Respiratory Protection

If significant mists or aerosols are generated an approved respirator is recommended. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

Eye Protection

Wear safety glasses with side shields (or goggles).

Hand Protection

Wear chemical resistant gloves. Gloves should be replaced immediately if signs of degradation are observed.

Body Protection

Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals.

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9. Physical and chemical properties

Properties	Description	Properties	Description
Form	Liquid – Solid	Appearance	Off-white cloudy liquid with solid object. Note: These physical properties are typical values for this product. Bluish white, silvery gray. Note: These physical properties are typical values for Lead(Pb).
Odour	Characteristics. Note: These physical properties are typical values for this product. None. Note: These physical properties are typical values for Lead(Pb).	Decomposition Temperature	Not available. Note: These physical properties are typical values for this product. Not applicable. Note: These physical properties are typical values for Lead(Pb).
Boiling Point	Not available. Note: These physical properties are typical values for this product. 1740°C (1013 hPa) Note: These physical properties are typical values for Lead(Pb).	Solubility in Water	Soluble in water. Note: These physical properties are typical values for this product. Insoluble in water. Note: These physical properties are typical values for Lead(Pb).
Specific Gravity	Not available. Note: These physical properties are typical values for this product. 11.34 g/cm3 Note: These physical properties are typical values for Lead(Pb).	рН	pH < 1 (Sulfuric acid) Note: These physical properties are typical values for this product. Not applicable. Note: These physical properties are typical values for Lead(Pb).
Vapour Pressure	Not available. Note: These physical properties are typical values for this product. 1.33 hPa (973?) Note: These physical properties are typical values for Lead(Pb).		Not available. Note: These physical properties are typical values for this product. Not applicable. Note: These physical properties are typical values for Lead(Pb).
Evaporation Rate	Not available. Note: These physical properties are typical values for this product. Not applicable. Note: These physical properties are typical values for Lead(Pb).	Odour Threshold	Not available. Note: These physical properties are typical values for this product. Not available. Note: These physical properties are typical values for Lead(Pb).
Viscosity	Not available. Note: These physical properties are typical values for this product. Not applicable.	Partition Coefficient: n-octanol/water	Not available. Note: These physical properties are typical values for this product. Not applicable.

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Properties	Description	Properties	Description
	Note: These physical properties are typical values for Lead(Pb).		Note: These physical properties are typical values for Lead(Pb).
Flash Point	Non-flammable. Note: These physical properties are typical values for this product. Non-flammable. Note: These physical properties are typical values for Lead(Pb).	Flammability	Not applicable. (SOLID, GAS) Note: These physical properties are typical values for this product. Not applicable. (SOLID, GAS) Note: These physical properties are typical values for Lead(Pb).
Auto-Ignition Temperature	Not applicable. Note: These physical properties are typical values for this product. Not applicable. Note: These physical properties are typical values for Lead(Pb).	Flammable Limits - Lower	Non-flammable. Note: These physical properties are typical values for this product. Non-flammable. Note: These physical properties are typical values for Lead(Pb).
Flammable Limits - Upper	Non-flammable. Note: These physical properties are typical values for this product. Non-flammable. Note: These physical properties are typical values for Lead(Pb).	Explosion Limit - Upper	Non-flammable. Note: These physical properties are typical values for this product. Non-flammable. Note: These physical properties are typical values for Lead(Pb).
Explosion Limit - Lower	Non-flammable. Note: These physical properties are typical values for this product. Non-flammable. Note: These physical properties are typical values for Lead(Pb).	Molecular Weight	Mixture. Note: These physical properties are typical values for this product. 207.2 Note: These physical properties are typical values for Lead(Pb).
Initial boiling point and boiling range	Not available.	Melting/Freezing Point	Not available. Note: These physical properties are typical values for this product. 327.5? Note: These physical properties are typical values for Lead(Pb).

10. Stability and reactivity

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

(STATIC DISCHARGE, SHOCK, VIBRATION etc.):

Overcharging. Sources of ignition. Mechanical impact. Contact with incompatible chemicals.

Incompatible materials

If a battery ruptures, avoid contact with organic materials and alkaline materials.

Hazardous Decomposition Products

Lead, Lead compounds and sulfuric acid fumes may be released during a fire involving the product.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

11. Toxicological Information

Acute Toxicity - Oral

(possible route of exposure)

Oral (LD50): Rat

2140 mg/kg (Sulfuric acid), 7000 mg/kg (Antimony)

Numeric measure of toxicity (such as acute toxicity estimates) - ATEmix

Oral (LD50) : Rat > 5,000 mg/kg

Acute Toxicity - Inhalation

(possible route of exposure) Inhalation (LC50): Rat 0.094 mg/L(4hr) (dust//mist)

Numeric measure of toxicity (such as acute toxicity estimates) - ATEmix

Inhalation (LC50): Rat 2.51 mg/L(4hr) (dust//mist)

Acute Toxicity - Dermal

(possible route of exposure) Skin (LD50): Not available.

Numeric measure of toxicity (such as acute toxicity estimates) - ATEmix

Skin (LD50): Not available.

Ingestion

Serious burns.

Inhalation

Corrosive. severe irritation and burns.

Skin

Redness, swelling, burns and severe skin damage.

Eye

Tearing, redness, swelling, corneal damage, irreversible eye damage and severe burns.

Skin corrosion/irritation

Cat 1

Serious eye damage/irritation

Cat 1

Respiratory sensitisation

Not available.

Skin Sensitisation

Not available.

Germ cell mutagenicity

Cat 2

Carcinogenicity

Cat 1B

ACGIH Group A2, IARC Group 1 (Mist containing sulfuric acid)

* Note: Sulfuric acid mist is not expected under normal use of the product.

ACGIH Group A3, IARC Group 2B (Lead), IARC Group 3 (Polypropylene)

Reproductive Toxicity

Not available.

STOT-single exposure

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Cat 1

Respiratory.

STOT-repeated exposure

Cat 1

Hematopoietic system, kidney, central nervous system, peripheral nervous system, cardiovascular system, immune system, respiratory.

Aspiration Hazard

Not available.

12. Ecological information

Persistence and degradability

Persistence: Not available. Degradability: Not available.

Mobility

Mobility in soil: Not available.

Bioaccumulative Potential

Not available.

Other Adverse Effects

Not available.

Acute Toxicity - Fish (LC50): Not available.

Acute Toxicity - Daphnia (EC50): Not available.

Acute Toxicity - Algae (EC50): Not available.

13. Disposal considerations

Waste Disposal

Dispose of in accordance with local, state, and federal regulations. Hazardous wastes must be transported by a licensed hazardous waste transporter and disposed of or treated in a properly licensed hazardous waste treatment, storage, disposal or recycling facility. Consult local, state, and federal regulations for specific requirements.

Special precautions for landfill or incineration

(INCLUDING DISPOSAL OF CONTAMINATED CONTAINER OR PACKAGE)

Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

Transport Information

The information in this section is for reference only and should not take the place of a shipping paper (BL). Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation.

U.N. Number

2794

UN proper shipping name

BATTERIES, WET, FILLED WITH ACID

Transport hazard class(es)

Packing Group

EPG Number

8A1

IERG Number

37

UN Number (Air Transport, ICAO)

2794

IATA/ICAO Proper Shipping Name

BATTERIES, WET, FILLED WITH ACID

IATA/ICAO Hazard Class

8

IMDG UN No

2794

IMDG Proper Shipping Name

BATTERIES, WET, FILLED WITH ACID

IMDG Hazard Class

8

IMDG Pack. Group

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Special Precautions for User

Not available.

15. Regulatory information

Regulatory information

INVENTORIES

EINECS/EU: Listed (EINECS No. 231-100-4(Lead), 231-639-5(Sulfuric acid))

TSCA/US: Listed. ENCS/JAPAN: Listed.

AICS/AUSTRALIA: Listed (ENCS No. 1-527(Lead), 1-430(Sulfuric acid))

DSL/CANADA: Listed.
IECSC/CHINA: Listed.
PICCS/PHILIPPINES: Listed.

KECI/S.KOREA: Listed (KE-21887(Lead), KE-32570(Sulfuric acid))

International Environmental Agreement

PIC : Not listed. POPs : Not listed.

Ozone depletion: Not listed.

EU. Directive 67/548/EEC on the classification, packaging, and labelling of dangerous substances, Annex I

Classification: R35 Risk Phrases: C; R35

Safety Phrases: S1/2, S26, S30, S45

U.S. Federal, Heanth and Environment) and U.S. Federal, Right-To-Know

CERCLA Section 103 (40 CFR 302.4): 10lb (4.535 kg) (Lead), 1000 lb (453.599 kg) (Sulfuric acid)

EPCRA (SARA Title III) Section 302 (EHS -TPQ): 1000 lb (453.599 kg) (Sulfuric acid)

EPCRA (SARA Title III) Section 304 (EHS - Reporting Quantities): 1000 lb (453.599 kg) (Sulfuric acid)

EPCRA (SARA Title III) Section 313 - Toxic chemical release reporting: Sulfuric acid (acid aerosols including mists, vapors, gas, fog, and other airborne forms of any particle size)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-.1052): Not applicable.

CANADA REGULATORY INFORMATION

WHMIS Ingredient Discl

WHMIS Ingredient Disclosure List: Regulated.

NOTE: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the Safety Data Sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

Hazard Rating Systems

NFPA/HMIS Rating:

Health=3, Flammability=0, Instability=1

(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

16. Other Information

User Codes

	User Title Label	User Codes
Wi	is Numbers	01090214

Other Information

Control No.: GB-EB-02

MANUFACTURER: Sebang Global Battery CO.,Ltd. 122, Jeongdong-ro, Changwon-si, Gyeongsangnam-do

TEL: +82-55-279-9734 FAX: +82-55-282-2658

David Chen 0413 381 228

SOURCE OF DATA:

Guideline for Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

EC-ECB, International Uniform Chemical Information Database (IUCLID)

Hazardous Substances Data Bank (HSDB)

Registry of Toxic Effects of Chemical Substances (RTECS)

National Institute of Technology and Evaluatio -NITE (Japan).

NFPA 704 Standard System for the Identification of the Hazards of Materials for Emergency Response.

International Chemical Safety Cards(ICSC)(http://www.nihs.go.jp/ICSC)

3E Company/Ariel WebInsight DB.

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END OF SDS

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