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1. Identification Of Substance

Product Details Product Name: Product Model: Manufacturer/Supplier By:

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SEALED LEAD ACID BATTERY Whole series

TIGER CENTURY INTERNATIONAL CO., LTD

Duichuan Industrial Park East, Yanghe Town(Renhe), Gaoming District, Foshan City, Guangdong Province, 528513 Emergency Tel: +86-(0)13922981465

2. Hazards Identification

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Classification of the substance or mixture according to Regulation (EC) No 1272/2008 [CLP/GHS]

No health effects are expected during normal use of this product as sold. Hazardous exposure may occur when the product is heated, oxidized or otherwise processed, damaged or subjected to misuse. Follow manufacturer's instructions for installation, service and use.

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Ç ^{©.}	GHS	Hazard class Acute Toxicity	s/catogory	Hazard	2008/98/EC	for otsi	Labels	II State and reference
	code		Sicaleguly	class/category	code	onthestret	Labels	The second second
	H302	Acute Toxicity (Oral)	Category 4	Harmful if swallowed	HP 6	malte		II B HE HAND THE PERFORMANCE
				Causes severe	tronic onter.			Alle
	H314	Skin corrosion	Category 1A	skin burns and	MP 8	- , CC. 🔇	<u>v</u> &	>
	H314 H335	Specific target organ toxicity, single exposure, Respiratory tract irritation Reproductive toxicity	0.000	Might cause	EPHP5	The central of the state of the		A the strength of the strength
	0	HAR DION	Vail.	Suspected	×.			P ant fo
Ż	H361	Reproductive toxicity	Category 2	damaging of fertility or the	, ^{C®:} HP 10	EBO .		Cer.
	AT AND A	MI TOPO				A A A A A A A A A A A A A A A A A A A	ort affirm	XIN AS
A P	ersion for	Reproductive toxicity	- HE HE	Env	ironment			EU EU
C. 7	No.		MUT X			Prenared by Sh	enznen FK() 🔪	echnology Co IId

Safety Data Sheet According to 1907/2006/EC (REACH), 1272/2008/EC (CLP) and GHS MSDS Code: EBO1710018-M038 Date of Issue: October 13, 2017 SEALED LEAD ACID BATTERY Page 2 of 10 GHS Hazard 2008/98/EC Hazard class/category Labels code statements code Hazardous to Toxicity to the aquatic aquatic life with Category 2 HP 14 environment, long lasting acute hazard effect Physical Under abnormal use in not ventilated rooms may form explosive air/gas mixture during charging or when extreme overcharging / Extremely flammable gas (hydrogen) / Explosive, fire, blast or projection hazard. GHS Hazard 2008/98/EC Hazard class/category Labels code statements Explosive; fire Division H203 Explosives blast or N/A 1.3 projection hazard **Precautionary Statements - Prevention** Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray **Precautionary Statements - Response** Immediately call a POISON CENTER or doctor/physician for all exposures IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing IF SWALLOWED: Rinse mouth. Do NOT induce vomiting Precautionary Statements - Storage Store locked up Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

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Other Hazards

Very toxic to aquatic life with long lasting effects

3. Composition/Data On Components

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COMPONENT	CAS #	EC No.:	% by wt.
Electrode plate: Lead	7439-92-1	231-100-4	66.2%
Electrolyte: Dilute sulphuric acid	7664-93-9	231-639-5 🔊	24.5%
Separator: Fiberglass	65997-17-3	266-046-0	2.7%
Battery shell: ABS	9003-56-9	NA NA	6.6%
W/X - Cho - Office		5 <u>~</u> %	° no

4. First aid Measures

Take proper precautions to ensure you own health and safety before attempting to rescue a victim and provide first aid.

Inhalation :

Skin Contact:

Eye Contact:

Ingestion :

5. Fire Fighting Measures

Flash Point: : Flammable Limits : Extinguishing media: Fire Fighting Procedures:

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Remove from exposure, gargle, wash nose and lips; consult physician. Flush with large amounts of water for at least 15 minutes; remove contaminated clothing completely, including shoes. Wash immediately with soap and water.

Flush immediately with large amounts of water for at least 15 minutes; Consult physician immediately Give large quantities of water; do not induce vomiting; consult physician.

Remove to fresh air immediately. If breathing is difficult, give oxygen.

Consult physician immediately

Not Applicable

LEL = 4.1% (hydrogen gas in air) ; UEL = 74.2% CO2; foam; dry chemical

Use positive pressure, self-contained breathing apparatus. Beware of acid splatter during water application and wear acid-resistant clothing, gloves, face and eye protection. If batteries are on charge, shut off power to the charging equipment, but, note that strings of series connected batteries may still pose risk of electric shock even when charging equipment is shut down.

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Hazardous Combustion Products:

In operation, batteries generate and release flammable hydrogen gas. They must always be assumed to contain this gas which, if ignited by burning cigarette, naked flame or spark, may cause battery explosion with dispersion of casing fragments and corrosive liquid electrolyte. Carefully follow manufacturer's instructions for installation and service. Keep away all sources of gas ignition and do not allow metallic articles to simultaneously contact the negative and positive terminals of a battery.

6. Accidental Release Measures

Remove combustible materials and all sources of ignition. Stop flow of material and contain spill by diking with soda ash, etc. Carefully neutralize spill with soda ash, etc. Make certain mixture is neutral then collect residue and place in a drum or other suitable container with a label specifying "contains hazardous waste" or (if uncertain call distributor regarding proper labeling procedures). Dispose of as hazardous waste. If battery is leaking, place battery in a heavy duty plastic bag. Wear acid resistant boots, face shield, chemical splash goggles and acid resistant gloves. Do not allow discharge of acid to sewer. Acid must be managed in accordance with approved local, state, and federal requirements. Consult state environmental agency and/or federal EPA.

7. Handling And Storage

Handling:

Storage:

Charging:

Single batteries pose no risk of electric shock but there may be increasing risk of electric shock from strings of connected batteries exceeding three 12-volt units. Batteries are non-spillable - potential for exposure to contents only during recycling or if outer casing is cracked or damaged.

Store batteries under roof in cool, dry, well-ventilated areas that are separated from incompatible materials and from activities which may create flames, sparks, or heat. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short-circuit.

There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking.

8. Exposure Controls And Personal Protection

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Engineering Controls (Ventilation): Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously. Make certain vent caps are on securely. If battery case is damaged, avoid bodily contact with internal components. Wear protective clothing, eye and face protection, when charging or handling batteries.

Wash hands thoroughly before eating, drinking or smoking after handling batteries.

None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.

None required under normal conditions. If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing, and boots.

None required under normal conditions. If battery case is damaged, chemical goggles or face shield.

In areas where water and sulfuric acid solutions are handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply.

9. Physical And Chemical Properties

Form: Color: Odor: Voltage: Capacity: Chemical Uses: pH: Flash point: Flammability: Relative density: Solubility (water): Solubility (other):

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Hygiene Practices:

Skin Protection:

Eye Protection:

Other Protection:

Respiratory Protection

(NIOSH/MSHA approved):

Battery Multicolor Odorless 2V, 6V, 12V 1.3AH-3000AH

Power supply for electronic products. Not applicable unless individual components exposed. Not applicable unless individual components exposed.

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10. Stability And Reactivity

Stability: Conditions to Avoid:

Incompatibilities:

Prolonged overcharging and overheating current; sparks and other sources of ignition.

Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide gas, strong oxidizers, and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable hydrogen gas. No further concern for mechanical impact.

Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate, permanganate, peroxides, nascent

Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, hydrogen sulfide.

Temperatures above the melting point are likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent hydrogen may generate highly toxic arsine gas.

Hazardous Polymerization

Hazardous Decomposition

Products:

Will Not Occur 🔍

Stable

11. Toxicological Inform	ation
Routes of Entry:	Harmful by all routes of entry.
A CONTRACTOR	Hazardous exposure can occur only when product is heated above the melting
A A A A A A A A A A A A A A A A A A A	point, oxidized or otherwise processed or damaged to create dust, vapor, or
N. Color il.	fume. <
Acute Toxicity:	Inhalation LD50:
" shall t	LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3
	LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3 Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion) Oral LD50:
THE ON D	Oral LD50:
A HAR NEW STEW	rat: 2140 mg/kg
A AND AND A	Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)
Inhalation:	Breathing of sulfuric acid vapors or mists may cause severe respiratory
ATT IN CONT	irritation.
it is test	Inhalation of lead dust or fumes may cause irritation of upper respiratory tract
arsion orman	A REU CONTRACTOR OF A REUCE
ic vent it	Prepared by Shenzhen EBO Technology Co., Ltd. T: 86-755-29451282 F: 86-755-22639141 www.MSDS51.com ebo@ebotek.cn
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According to 1907/2006/EC (REACH), 1272/2008/EC (CLP) and GHS MSDS Code: EBO1710018-M038 Date of Issue: October 13, 2017 Page 7 of 10 SEALED LEAD ACID BATTERY

and lungs.

May cause severe irritation of mouth, throat, esophagus, and stomach. Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea, and severe cramping. This may lead rapidly to systemic toxicity. Severe irritation, burns, and ulceration. Sulfuric acid is not readily absorbed through the skin and is not a dermal sensitizer. Not absorbed through the skin and not a dermal sensitizer. Severe irritation, burns, cornea damage, blindness. May cause eye irritation 🔇 No known synergistic products Synergistic effects have been noted with heavy metals (arsenic, cadmium, mercury), N-nitroso-N-(hydroxyethyl)ethylamine,

N-(4-fluoro-4-biphenyl)acetamide, 2-(nitrosoethylamine)ethanol, and benzo[a]pyrene.

Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of electrolyte (water and sulfuric acid solution) with skin may aggravate skin diseases such as eczema and contact dermatitis. Contact of electrolyte (water and sulfuric acid solution) with eyes may damage cornea and/or cause blindness. Lead and its compounds can aggravate some forms of kidney, liver, and neurologic diseases.

All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section VIII. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the work site. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home nor laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.

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Ingestion:

Skin Contact:

Eye Contact:

Synergistic Products:

Additional Information: Medical Conditions Generally Aggravated by Exposure:

Additional Health Data:

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12. Ecological Information

Environmental Fate:

Environmental Toxicity Aquatic Toxicity: lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments is slow. Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain. Most studies include lead compounds and not elemental lead.

Sulfuric acid:

24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L 96 hr-LOEC, freshwater fish (Cyprinus carpio): 22 mg/L Lead:

48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion

13. Disposal Considerations

Sulfuric Acid:

Spent batteries:

Neutralize as described above for a spill, collect residue and place in a container labeled as containing hazardous waste. Dispose of as a hazardous waste. If uncertain about labeling procedures, call your local battery distributor or listed contact. DO NOT FLUSH LEAD CONTAMINATED ACID TO SEWER. Send to secondary lead smelter for recycling. Follow applicable federal, state and local regulations

Neutralize as in preceding step. Collect neutralized material in sealed container and handle as hazardous waste as applicable. A copy of this MSDS must be supplied to any scrap dealer or secondary lead smelter with the battery.

14. Transport Information

Wet, non-spillable batteries do not need to be shipped and transported as fully-regulated Class 8 Corrosive hazardous materials / dangerous goods when tested, packaged and marked in accordance with the following regulations: U.S. Hazardous Materials Regulations: 49 CFR 173.159(f) and 49 CFR 173.159a

The batteries are excepted from regulation if they have been tested in accordance with the vibration and pressure differential tests found in 49 CFR 173.159(f) and "rupture test" found at 49 CFR 173.159a;

When offered for transport, the batteries must be protected against short circuits and securely packaged in accordance with 49 CFR 173.159a; and

The batteries and outer packaging must be marked NON-SPILLABLE BATTERY or NON-SPILLABLE as required by

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49 CFR 173.159^a

IATA Dangerous Goods Regulations (58th) :Packing Instruction 872 and Special Provision A67 The batteries are excepted from regulation if they have been tested in accordance with the vibration and pressure differential tests found in Packing Instruction 872 and "rupture test" found in Special Provision A67 of the International Air Transport Association (IATA) Dangerous Goods Regulations

When offered for transport, the batteries must be protected against short circuits and securely packaged in accordance with Special Provision A67.

The words "Not Restricted" and "Special Provision A67" must be included in the description of the substance on the Air Waybill when an Air Waybill is issued.

IMDG Code: Special Provision 238.1 and 238.2

The batteries are excepted from regulation if they have been tested in accordance with the vibration and pressure differential tests and "rupture test" found in Special Provision 238.1 and 238.2.

When offered for transport, the batteries must be protected against short circuits and securely packaged in accordance with Special Provision 238.1 and 238.2.

If the regulations listed above are not met, then Batteries, wet, nonspillable (UN2800) are regulated as Class 8 Corrosive hazardous materials / dangerous goods by the U.S. Department of Transportation (DOT) and international dangerous goods regulatory authorities pursuant to the IATA Dangerous Goods Regulations and IMDG Code.

15. Regulations

Safety, health and environmental regulations/legislation specific for the substance or mixtureEuropean Union:Take note of Directive 98/24/EC on the protection of the health and safety of

Authorizations and/or restrictions on use:

Persistent Organic Pollutants Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Chemical Safety Report workers from the risks related to chemical agents at work. This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Not applicable

Not applicable

No information available

16. Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since

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