



MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 1 of 10

Prepared For : Sealed Performance Batteries
: 1 Ant Road, Yatala, Queensland, 4207, Australia

Sample Name : SEALED LEAD ACID BATTERY

Trade Mark : Zeal AGM

Shenzhen Toby Laboratories Inc.

Prepared By : Rm.307-309, 311, Bldg.2, Huahan Sci-tech Industrial Park, No.19 Lanjin 4th
Road, Heping Community, Pingshan St., Pingshan District, Shenzhen
192 307-309
311

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Edited by:

Wick Wu

Approved by:

Jim Chan.



Shenzhen Toby Laboratories Inc.

Rm.307-309, 311, Bldg.2, Huahan Sci-tech Industrial Park, No.19 Lanjin 4th Road, Heping Community,
Pingshan St., Pingshan District, Shenzhen, Guangdong, China
19 2 307-309, 311

Tel: (86) 0755-28681362/28681363 toby@tongbiao.com Http: //www.toby.org.cn

MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 2 of 10

Section 1-Chemicals and Company Identity			
Product Name	SEALED LEAD ACID BATTERY		
End Uses	Automotive, Industrial Standby Power and Motive Power.Starting, lighting, ignition for car, truck, DC storage, forklift operation,UPS, EPS, Solar energy storage, Communication power supply, Auto control system, Transportation field, etc. UPSEPS		
Manufacturer	Sealed Performance Batteries		
Manufacturer Address	1 Ant Road, Yatala, Queensland, 4207, Australia		
Emergency Telephone	1300 001 772		
Fax			
E-mail	sales@spb.net.au		
Section 2- Hazards Identification			
Hazard description	The batteries are not hazardous when used according to the instructions of manufacturer under normal conditions. In case of abuse, theres Hazard of rupture, fire, heat, leakage of internal components, which could cause casualty loss. Abuses including but not limited to the following cases: charged for long time, short circuited, put into fire, whacked with hard object, punctured with acute object, crushed, and broken.		
Section 3- Composition Information			
Chemical Name	Chemical Formula	CAS No.	Weight (%) %
Lead	Pb	7439-92-1	57%
Lead dioxide	PbO ₂	1309-60-0	22%
Suifuric acid	H ₂ SO ₄	7664-93-9	14%
Others	-	-	7%



MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 3 of 10

Section 4- First Aid Measures	
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Eye Contact	In case of contact with battery contents, immediately lift eyelids, flush with running water for at least 20 minutes, and seek medical attention. 20
Skin Contact	In case of contact with battery contents, remove contaminated clothing and footwear, rinse immediately with running water for at least 20 minutes, and seek medical attention. 20
Inhalation	If inhaled, remove immediately from the scene to fresh air, give oxygen if breathing is difficult, and seek immediate medical attention.
Ingestion	If you have ingested battery material, do not induce vomiting, drink at least two glasses of milk or water if the person is conscious, and seek medical attention immediately.
Section 5- Firefighting Measures	
-	
Characteristics of Hazard	Combustion may produce irritating, corrosive or toxic gases.
Hazardous Combustion Products	Carbon dioxide.
Fire-extinguishing Methods and Extinguishing Media	For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.
Attention in Fire-extinguishing	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. MSHA/NIOSH
Section 6- Accidental Release Measures	
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MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 4 of 10

Personal Precautions, Protective Equipment, and Emergency Procedures	In case of rupture. Attention! Corrosive material. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Refer to protective measures listed in Sections 7 and 8. /
Environmental Precautions	Prevent product from contaminating soil and from entering sewers or waterways.
Methods and materials for Containment	Stop the leak if safe to do so. Contain the spilled liquid with dry sand or earth. Clean up spills immediately.
Methods and Materials for Cleanup	Absorb spilled material with an inert absorbent (dry sand or earth). Scoop contaminated absorbent into an acceptable waste container. Collect all contaminated absorbent and dispose of according to directions in Section 13. Scrub the area with detergent and water; collect all contaminated wash water for proper disposal. ()
Section 7- Handling and Storage	
Handling	The battery may explode or cause burns, if disassembled, crushed or exposed to fire or high temperatures. Do not short or install with incorrect polarity.
Storage	Store in a cool, dry, well-ventilated area away from incompatible substances. Store locked up. Keep out of the reach of children.
Other Precautions	In case of rupture. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Use personal protection equipment.



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MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 5 of 10

Section 8- Exposure Controls/Personal Protection	
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Engineering Controls	Store lead/acid batteries with adequate ventilation.Room ventilation is required for batteries utilized for standby generation.Never recharge batteries in an unventilated, enclosed space. /
Work Practices	Do not remove vent caps.Follow shipping and handing instructions that are applicable to the battery type.To avoid damage to terminals and seals,do not double-stack industrial batteries.
Respiratory Protection	None required under normal handing conditions.During battery formation (high-rate charge condition),acid mist can be generated which may cause respiratory irritation.Also,if acid spillage occurs in a confined space,exposure may occur.If irritation occurs,wear a respirator suitable for protection against acid mist.
Eyes and Face	Chemical splash goggles are preferred.Also acceptable are visor-gogs or a chemical face shield worn over safety glasses. " "
Hands,Arms,Body	Vinyl coated,VC,gauntiet type golves with rough finish are preferred. VC
Other Special Clothing and Equipment	Safety shoes are recommended when handing batteries.All footwear must meet requirements of EN ISO 20345:2011. EN ISO 20345:2011
Section 9- Physical and Chemical Properties	
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Appearance	Quadrate
Color	Light Grey
Odour	Odourless
pH	No data available
Melting Point/Freezing Point /	Not applicable unless individual components exposed.
Boiling Point and	Not applicable unless individual components exposed.



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MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 6 of 10

Boiling Range :	
Flash Point	Not applicable unless individual components exposed.
Upper/Lower Flammability or Explosive Limits	Not applicable unless individual components exposed.
Vapor Pressure	Not applicable unless individual components exposed.
Vapor Density	Not applicable unless individual components exposed.
Relative Density	Not applicable unless individual components exposed.
Solubility in Water	Not applicable unless individual components exposed.
Auto-ignition Temperature	Not applicable unless individual components exposed.
Decomposition Temperature	Not applicable unless individual components exposed.
Evaporation Rate	Not applicable unless individual components exposed.
Flammability (Soil, Gas) ()	Not applicable unless individual components exposed.
Viscosity	Not applicable unless individual components exposed.
Other Information	Not applicable unless individual components exposed.
Section 10- Stability and Reactivity	
Stability	The product is stable under conditions described Section 7.
Conditions to Avoid	Mishandling, open flame, high temperature, mechanical abuse, overcharging, prevention of short circuit and prevention of movement that can lead to short



MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 7 of 10

	circuit.
Incompatible Materials	Flammable materials, organic substances, reducing agents, metals, strong oxidizers, alkalis and water.
Hazardous Decomposition Products	Metal oxides, sulfur oxides, sulfuric acid mist, etc.
Possibility of Hazardous Reaction	Not Applicable

Section 11 Toxicological Information

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Under normal operating conditions,the internal material will not be hazardous to your health.Only internally exposed material during production or case breakage or extreme heat (fire) may be hazardous to your health.

Routes of entry :

Installation	Acid mist from formation process may cause respiratory irritation.
Skin contact	Acid may cause irritation,burns and/or ulceration. /
Eye contact	Acid may cause sever irritation,burns,cornea damage and/or blindness. /
Ingestion	Acid may cause irritation of mouth,throat,esophagus and stomach.

Sign and Symptoms of Over Exposure :

Acute effects	Over exposure to lead may lead to loss of appetite,constipation,sleeplessness and fatigue.Over exposure to acid may lead to skin irritation,corneal damage of the eyes and upper respiratory system.
Chronic effects	Lead and its components may cause damage to kidneys and nervous system.Acid and its components may cause lung damage and pulmonary conditions.



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Report No. ():TBR-C-202411-0188-3

Page 8 of 10

Potential to cause cancer	The interational agency for research on cancer has classified strong inorganic acid mist containing sulfuric acid as a category 1 carcinogen,a substance that is carcinogenic to humans.This classification does not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery.Inorganic acid mist is not generated under normal use of this product.Misuse of the product,such as overcharging,may however result in the generation of sulfuric acid mist. 1
Section 12- Ecological Information -	
California proposition 65 65 : The state of california has determined that certain battery terminals and related accessories contain lead and lead compounds,chemicals known to the state of california to cause cancer and reproductive harm. Warming:Wash hands thoroughly after handing batteries.	
Section 13- Disposal Considerations -	
Waste disposal method	Battery electrolyte(acid):neutralize as above for a spill,collect residue,and place in a drum or suitable container.Dispose of as hazardous waste.Do not flush lead contaminated acid to sewer.
Batteries	Send to lead smelter for reclamation following applicable federal,state and local regulations.Product can be recycled along with automotive (SLI) lead acid batteries. SLI
Section 14 Transport Information -	
Packing Group	Not Applicable
Environmental hazards	No
ICAO/IATA /	BATTERIES, WET, NON-SPILLABLE electric storage



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MATERIAL SAFETY DATA SHEET

Report No. ():TBR-C-202411-0188-3

Page 9 of 10

IMDG CODE	BATTERIES, WET, NON-SPILLABLE electric storage
DOT	BATTERIES, WET, NON-SPILLABLE electric storage
ADR/ADN	BATTERIES, WET, NON-SPILLABLE electric storage
Special precautions for user	Based on chemical properties, choose appropriate tools and conditions of transport. Transporting tools shall be equipped with appropriate and sufficient firefighting equipment and emergency leaking installations. If transporting by road, please go along the specified route.

Shipping Information: Sealed lead-acid battery 12V250Ah has passed the vibration, differential pressure, leakage test. Please follow the Marine Dangerous Goods Code IMDG (42-24) Special Provision 238 or UN Recommendations on the Transport of Dangerous Goods Model Regulations (23) Special Provision 238 during transport. The article is not subject to other provisions of these rules.

: 12V250Ah

IMDG(42-24) 238(23) 238

Section 15- Regulatory information

Law information

Dangerous Goods Regulations
Recommendation on the Transport of Dangerous Goods Model Regulations

International Maritime Dangerous Goods
Technical Instructions for the Safe Transport of Dangerous Goods
Classification and code of dangerous Goods
Occupational Safety and Health Act(OSHA)
Toxic Substance Control Act(TSCA)
Consumer Product Safety Act(CPSA)
Federal Environmental Pollution Control Act(FEPCA)
The Oil Pollution Act(OPA)
Superfund Amendments and Reauthorization Act TitleIII (302/311/312/313)(SARA)
III(302/311/312/313)
Resource Conservation and Recovery Act(RCRA)
Safety Drinking Water Act(CWA)
California Proposition 65
Code of Federal Regulations(CFR) In according with all
Federal, State and local laws.



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Report No. ():TBR-C-202411-0188-3

Page 10 of 10

Section 16- Other Information

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The information above is believed to be accurate and represents the best information currently available to us. However, TOBY makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation. This material safety data sheet provides guidelines for the safe handling and use of this product; it does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required.

,TOBY,,,

-- End of safety data sheet --

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