



Shenzhen Toby Technology Co., Ltd.

1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang
Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China

Tel: (86) 755-26509301/02 Fax: (86) 755-26509195 Http: // www.tobylab.cn

MATERIAL SAFETY DATA SHEETS

SAMPLE INFORMATION:

1. **Sample Description:** Valve Regulated Lead Acid Battery
2. **Brand Name:** JYC, EXOR
3. **Sample Model:** 12V100AH (Additional models: 2V50AH~2V3000AH, 6V1AH~6V250AH, 12V1AH~12V250AH), 12V7AH, 12V9AH
4. **Manufacturer:** JYC Battery Manufacturer Co., Ltd.
5. **Manufacturer Address:** Wengcheng Industrial Park, Guandu Development Zone, Wengyuan, Shaoguan, Guangdong, China
6. **Suggest Use and Restricted:** UPS, EPS, Solar energy storage, Communication power supply, Auto control system, Transportation field, etc.

CLIENT INFORMATION

1. **Applicant:** JYC Battery Manufacturer Co., Ltd.
2. **Applicant Address:** Wengcheng Industrial Park, Guandu Development Zone, Wengyuan, Shaoguan, Guangdong, China
3. **Applicant Post Code:** -----

TEST INFORMATION:

1. **Applicant No:** 201227182
2. **Test Items and Request:** MATERIAL SAFETY DATA SHEETS
3. **Date of Receipt:** Dec.25, 2020
4. **Date of Test:** Dec.26, 2020--Jan.04, 2021

SUMMARY:

As per request, the contents and formats of the MSDS are prepared in accordance with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

REMARKS:

1. The MSDS is prepared based on the information provided by client.
2. This sample is likely to be classified as article with substances not intended to be released and is out of scope of a MSDS as set out in OSHA's Hazard Communication Standard, 29 CFR 1910.1200. This MSDS is generated for client's reference only.

Signed for Shenzhen TOBY

Justin Zhang
Manager





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MATERIAL SAFETY DATA SHEETS

Section 1 - Identification of the substance /preparation and of the company/ undertaking

Identification of the preparation	:	Valve Regulated Lead Acid Battery
Company Identification	:	JYC Battery Manufacturer Co., Ltd.
Company Address	:	Wengcheng Industrial Park, Guandu Development Zone, Wengyuan, Shaoguan, Guangdong, China
Tel	:	0086-0751-2616166
Fax	:	0086-0751-2616166
Emergency Contact No.	:	0086-15816586999
e-mail	:	sales@jycbattery.cn

Section 2 - Hazards Identification

Hazard description: Harmful! Do not short circuit, recharge, puncture, incinerate, crush, immerse, force discharge or expose to temperatures above the declared operating temperature range of the product. Risk of fire or explosion.

Under normal conditions of use, the electrode materials and liquid electrolyte they contain are not exposed to the outside, provided the battery integrity is maintained and seals remain intact. Risk of exposure only in case of abuse (mechanical, thermal, electrical) which leads to the activation of safety valves and/or the rupture of the battery containers. Electrolyte leakage, electrode materials reaction with moisture/water or battery vent/explosion/fire may follow, depending upon the circumstances.

Section 3 - Composition/ Information on Ingredients

Hazardous Ingredients (Chemical Name)	Concentration or concentration ranges (%)	CAS Number
Sulfuric acid	33.5%	7664-93-9
ABS	5.0%	25155-30-0
Pb	60.0%	7439-92-1
AGM	1.5%	65997-17-3

Note: CAS number is Chemical Abstract Service Registry Number.



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Section 4 - First Aid Measures

Inhalation	Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
Skin contact	Wash off skin thoroughly with water. Remove contaminated clothing and wash before reuse. In severe cases obtain medical attention.
Eye contact	Irrigate thoroughly with water for at least 15 minutes. Obtain medical attention.
Ingestion	Wash out mouth thoroughly with water and give plenty of water to drink. Obtain medical attention.
Further treatment	All cases of eye contamination, persistent skin irritation and casualties who have swallowed this substance or been affected by breathing its vapours should be seen by a doctor.

Section 5 - Fire-Fighting Measures

Special fire-fighting Procedures	As with any fire, wear self-contained breathing apparatus to avoid inhalation of hazardous decomposition product
Hazardous thermal (de) composition products	Like any sealed container, battery cells may rupture when exposed to excessive heat; this could result in the release of flammable or corrosive materials
Emergency treatment	Use water, foam or dry powder, as appropriate

Section 6 - Accidental Release Measures

Accidental	If the battery fluid leak (sulfuric acid): A small leak: lime or soda ash mixed with sand, dry. Can also use a lot of water to rinse, wash water diluted into the wastewater system. A large number of leak: constructing dike to dig a hole or asylum. Pump to tank lorry or dedicated collector, recycling or shipped to the waste disposal sites.
Waste treatment	The battery Should discharge completely, the waste batteries will be turned over in the relevant sector, and all waste must refer to the United Nations, national, local regulations for disposal. Reference to national or federal Environmental Protection Agency EPA.



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Section 7 - Handling and Storage

Handling and Storage	Prohibit mechanical or electrical damage battery. Stored in a dry, cool and ventilated environment, to avoid temperature changes or high temperature. Keep away from heat, avoid prolonged sun exposure. Against short circuit, overcharge, forced discharge, or in a fire. Battery disassembly, crush, fire or high temperatures can cause fire or explosion, prohibit short-circuit or error operation.
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Section 8 - Exposure Controls/ Personal Protection

Engineering control methods	Airtight operation, pay attention to ventilation. As far as possible, mechanization and automation. Provide safety shower and eye equipment
Respiratory protection	May contact the smoke, wearing a self-priming filter type gas mask (full-face) or air respirator. Emergency rescue or evacuation, it is suggested that wear positive pressure air breathing apparatus.
Protective gloves	Wear rubber gloves resistant to acid and alkali.
Eye protection	Sending protective glasses.
Other protective clothing or equipment	In areas with sprinkler and punch work site no smoking, eating and drinking water. After work, shower change clothes. Kept by poison pollution clothes, wash the backup. To maintain good health habits.

Section 9 - Physical and Chemical Properties

Physical State	Form: Rectangle	
	Color: Black	
	Odour: Odourless	
Change in condition:		
pH, with indication of the concentration		Inside the battery has a strongly acidic liquid
Melting point/freezing point		Not available.
Boiling Point, initial boiling point		Not available.



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and Boiling range	
Flash Point	Not available.
Upper/lower flammability or explosive limits	Not available.
Vapor Pressure	Not applicable
Vapor Density(Air = 1)	Not applicable
Density/relative density	Not applicable
Solubility in Water	Not applicable
n-octanol/water partition coefficient	Not applicable
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
Odour threshold	Not applicable
Evaporation rate	Not applicable
Flammability (soil, gas)	Not applicable
Viscosity	Not applicable

Section 10 - Stability and Reactivity

Stability	Product is stable under conditions described in Section 7. Hazardous reactions may occur under some specific conditions.
Conditions to avoid	Incineration, deformation, segmentation, crushing, punching.
Materials to avoid	Strong inorganic acid, alkali, strong oxidant materials and conductive material
Hazardous decomposition products	Sulfur oxide, lead oxide, carbon dioxide, carbon monoxide

Section 11 - Toxicological Information

Primary irritant effect	None, unless battery ruptures. In the event of exposure to internal contents, corrosive fumes will be very irritating to skin, eyes and mucous membranes. Overexposure can cause symptoms of non-fibrotic lung injury and membrane irritation.
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Inhalation	Lung irritant.
Skin contact	Skin irritant
Eye contact	Eye irritant.
Ingestion	Tissue damage to throat and gastro-respiratory tract if swallowed.
Medical conditions generally aggravated by exposure	In the event of exposure to internal contents, eczema, skin allergies, lung injuries, asthma and other respiratory disorders may occur.

Section 12 - Ecological Information

Environmental Impact	Proper use and disposal of the battery will not harm the environment. Dispose of the battery, away from water, rain and snow.
Environmental Degradation	No data available.
Soil Absorption/Mobility	Slowly bio-degradable.

Section 13 - Disposal Considerations

Do not incinerate, or subject battery to temperatures in excess of 100. Such abuse can result in loss of seal, leakage, and/or battery explosion.

Waste disposal must be in accordance with the applicable regulations. Disposal of the battery should be performed by permitted, professional disposal page: firms knowledgeable in state or local requirements of hazardous waste treatment and hazardous waste transportation.

Incineration should never be performed by battery but users, eventually by trained professional in authorized facility with proper gas and fume treatment.

Section 14 - Transport Information

VRLA Battery

Land Transport

Land Transport (ADR / RID)

- UN No: UN2800
- Classification ADR / RID: Class 8
- Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE electric storage
- Packing Group ADR: not assigned



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- Tunnel code: E
- ADR / RID: New and spent (used) batteries are exempt from all ADR / RID (special provision 598)

Sea Transport

Sea transport (IMDG Code)

- UN No: UN2800
- Classification: Class 8
- Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE electric storage
- EmS: F-A, S-B

Non-Spillable batteries meet the requirements of Special Provision 238; they are exempt from all IMDG codes and are not subject to special regulation for sea transport

Air Transport

Air Transport (IATA-DGR)

- UN No: UN2800
- Classification: Class 8
- Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE electric storage
- Special Provision A48: Packaging test are not considered necessary
- Special Provision A67: JYC batteries meet the requirements of Packing

Instruction 872.

The battery has been prepared for transport so as to prevent:

- a) A short-circuit of the battery's terminals by packaging in a strong and sturdy carton box; AND/OR
- b) The battery has been fitted with an insulating cover (made from ABS) which prevents contact with the terminals.
- c) Unintentional activation is thus prevented

The words "NOT RESTRICTED" and the Special Provision (SP) number must be indicated on all shipping documents

- Special Provision A164: The battery has been prepared for transport so as to prevent:

- a) Short-circuit of the battery's terminals by packaging in a strong and sturdy carton box; AND/OR
- b) The battery has been fitted with a cover (made from ABS) which prevents contact with the terminals
- c) Unintentional activation is thus prevented

Section 15 - Regulatory Information

Provision for a proposed model for the transport of dangerous goods (revised xv). IATA Dangerous Goods Code, International Maritime Dangerous Goods Code, United States Hazardous Substances Code.



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Section 16 - Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, concorde 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 sheets 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.

The data/information contained herein has been reviewed and approved for general release on the basis that this document contains no export controlled information.

***** (END OF REPORT) *****