

Manufacturer: BYD Auto Industry Company Limited

Material Safety Data Sheet

May 16th, 2013

	Sec		duct and Compar	ny			
		ntification					
Manufacturer: H	BYD Auto Industry	Company Limited	T				
Address: NO.3009, BYD Road, Pingshan, Shenzhen, 518 P.R.China							
City: Shenzhen			Emergency call: +86				
		Section 2 - Haza	rd Identification				
Emergency instr	uction: The system			proper operation and store. Keep			
	•		-	away from high temperature and			
		_		ponent in the container without			
report.			•				
Possible hazaro	lous access	No					
Environment pro	otection	No littering					
1,		ū	osition Information				
Component			CAS#	% (according to weight)			
Steel				53. 2-56. 9			
LiCoxFe1-xP04(x	z<3)			7.6-13			
PVDF	·		24937-79-9	0. 42-0. 76			
Carbon			7440-44-0	3. 1-7			
PTFE				0. 09-0. 4			
ester				7. 4-11. 4			
PP				0.9-1.6			
Heat preservati	on material			1. 1-1. 7			
Copper			7440-50-8	7. 3-11			
Aluminum			7429-90-5	4. 1-5. 1			
PVC				0. 05-0. 1			
Fir Control Sys	stem			0. 04-0. 11			
Wire				2. 7-3. 7			
CO ₂				0. 02-0. 04			
		第 4 部分	- 急救措施				
		Section 4 - Fi	rst Aid Measures				
Cl	Remove contamir	Remove contaminated clothes and shoes immediately. Wash the adherence or contact region					
Skin contact	with soap and	with soap and plenty of water. Seek medical attention immediately.					
E	Immediately flush eyes with water continuously for at least 15 minutes. Seek medical						
Eye contact	attention immediately.						
Inhalation	Cover the victi	Cover the victim in a blanket, move to the place of fresh air and keep quiet. Seek medical					
	attention immediately. When dyspnea (breathing difficulty) or asphyxia (breath-bald),						
	give artificial respiration immediately.						
Ingestion	Get medical ai	Get medical aid. Do not induce vomiting. Get medical attention immediately.					
		Section 5 - Fire	Fighting Measures				
Suitable Exting	guisher FM200. D	ry power, sand, ca	arbon dioxide (CO2).				

Unsuitable		Water			
Unsuitable Extinguisher		water			
Specific hazards		Pick of burgting when it is expected to fire			
-		Risk of bursting when it is exposed to fire.			
Special protective equipment for		In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive			
firefighters	101	pressure mode.			
THEITIGHTEIS		Section 6 - Accidental Release Measures			
Personal precauti	one	No entrance without approval			
Environmental	.0115	Do not throw raw material into the environment.			
precautions		bo not throw raw material into the environment.			
Methods and mater	rial	Dilute the leaked ester with water and neutralize with diluted sulfuric acid,			
for cleaning up	141	when the leaked ester of container has leakage. The leaked solid is moved to a			
Tor creaming up		vessel. The leaked place is fully flushed with water.			
		Section 7 - Handling and Storage			
	Techni	ical measures: Prevention of user exposure; not necessary under normal use.			
		ntion of fire and explosion: Not necessary under normal use.			
		ition for safe handling: Do not dismantle the component in the cabinet.			
		pecific safe handling advice:			
Handling		ever throw out container in a fire or expose to high temperatures.			
		Oo not soak container in water and seawater.			
		o not expose to strong oxidizers.			
		not give a strong mechanical shock or throw down. Never disassemble, modify or deform.			
		o not touch the component in the container casually.			
	†	corage conditions (suitable to be avoided)			
		Avoid direct sunlight, high temperature, and high humidity.			
		tore in cool place (temperature: $-10 \sim 45 \text{C}$, humidity: $45 \sim 85 \text{M}$).			
Storage		ncompatible products			
	_	onductive materials, water, seawater, strong oxidizers and strong acids.			
		cking material (recommended, not suitable)			
	Isolat	Isolative and tear-proof, waterproof materials are recommended.			
		Section 8 - Exposure Controls and Person Protection			
Engineering contr	rol	N/A			
Occupational ex	posure	N/A			
limits					
		When handling leaking ester. Wear appropriate protective eyeglasses or chemical			
Eye protection		safely goggles as described by OSHA's eye and face protection regulations in			
		29 CFR 1910 or European Standard EN166.			
Skin protection		Use neoprene, rubber or nitrile gloves when handling leaking batteries to			
		prevent skin exposure.			
Breathing system		When it is possible to contact with hazardous gas, Non-powered air-purifying			
protection		respirators or isolated respirator must be wear.			
Clothing	lothing Wear appropriate protective clothing to minimize contact with skin.				
Section 9 - Physical and Chemical Properties					
Appearance and od	lor	N/A			

Odor threshold		N/A		
РН		N/A		
Melting/freezing point		N/A		
Initial boiling point		N/A		
Flash point		N/A		
Evaporation rate		N/A		
Inflammability (solid and gas	s state)	N/A		
Lowest flammable limit % (V/V	<i>I</i>)	N/A		
High flammable limit % (V/V)		N/A		
Vapor pressure (Kpa)		N/A		
Sublimation point ($^{\circ}$ C)		N/A		
Density (water=1)		N/A		
Relative Density (air=1)		N/A		
Solubility		不溶于水Insoluble in water		
Partition coefficient: n-octa	anol/water	N/A		
Automatic ignition temperatur	re (°C)	N/A		
Decomposition temperature		N/A		
	Section 10 - Stabi	lity and Reactivity		
Chemistry Stability	All of the components in the container are stable under storage condition			
Chemistry Stability	described in Section 7.			
Possibility of hazardous	No occurrence.			
reaction				
Conditions to avoid	Direct sunlight, high temperature and high humidity.			
Conditions to avoid	Do not heat above 100°C (212°F), incinerate, or expose contents to			
Incompatible material	Strong oxidizing property, strong acid.			
Hazardous decomposition	N/A			
product				
Section 11 - Toxicological Information				
None unless internal material	s are exposed. Toxic i	nformation is available on the ingredients noted in		

None unless internal materials are exposed. Toxic information is available on the ingredients noted in section 2, but generally not available to intact batteries as used by customers.

In case of internal gas released or electrolyte spilled, electrolyte and organic solvents has small toxicity and may cause irritation of skin or eyes. Released gas may also cause irritation of skin of eyes.

Section 12 - Ecological Information			
Ecological toxicity	cological toxicity No data available.		
Environmental	Since a the internal materials remain in the environment, it can't be degradable.		
	Do not throw out into the environment.		
Bioaccumulation	No information.		
Section 13 - Disposal Considerations			
Disposal measures	All of them can be recycled		
Section 14 - Transportation			
UN Number	No file		
PROPER SHIPPING NAME	No file		
Packaging Group	No file		

Sea contamination	No
	National regulations for transport land GB12268
	This battery type is classified as dangerous goods for transport, because the
National regulations	watt-hour rating of the battery exceeds 100 Wh. We also declare that this battery
	type meets the requirements of each test in the UN Manual of tests and Criteria
	Part III, Subsection 38.3 (ST/SG/AC.10/11/Rev.4)
	Section 15 - Regulatory Information
Major applicable regula	ations for the transportation are as follows:
SARA 313 Regulated Cher	nical(s)
California Prop. 65	
The UN Model Regulation	s, United Nations ST/SG/AC. $10/1/\text{Rev}\ 16$. Recommendations on the Safe Transport of
Dangerous Goods	
The International Civil	l Aviation Organization (ICAO) Technical Instructions for the Safe Transport of
Dangerous Goods by Air	Transport
The International Air	Transport Association (IATA) Dangerous Goods Regulations (52st Edition 2011)
International Maritime	Organization (IMO) International Maritime Dangerous Goods Code (IMDG Code) Amdt.
34-08 2008	
OSHA Hazard communicat	ion standard (29 CFR 1910)
_	Hazardous
	Section 16 - Other Information
The information contain	ed in this Safety data sheet is based on the present state of knowledge and current
legislation.	
This safety data sheet	provider guidance on health. Safety and environmental specs of the product and
should not be construed	d as any guarantee of technical performance or suitability for particular
applications.	
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File made by personnel	

The material safety data sheet is furnished to every manufacturer as a reference to secure the safe handling of chemical. Every manufacturer is requested to carry out appropriate actions for chemical handling as their own responsibility. The supplier makes no warrantee, either express or implied. Concerning of this products, User assumes all risks resulting from its use.

2013

Date