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MSDS

Common Name: VALVE REGULATED LEAD ACID BATTERY LC, UP, HV AND EC SERIES

Manufacturer: PANASONIC STORAGE BATTERY JAPAN

MSDS Revision Date: 7/28/2009

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Manufacturer Model Number(s):

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PANASONIC
IDEAS FOR LIFE

DATE ISSUED: FEB. 23 1998

DATE REVISED: JUL. 28 2009

PRODUCT SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT:
VALVE REGULATED LEAD ACID BATTERY
PANASONIC LC, UP, HV AND EC SERIES

COMPANY NAME: PANASONIC STORAGE BATTERY CO. LTD.

ADDRESS:
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KOSAI SHIZUOKA
JAPAN

CONTACT: WATARU TAKAHASHI

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ISSUED NO.: 1364-2

2. COMPOSITION / INFORMATION ON INGREDIENT



HAZARDS INGREDIENTS:

SPECIFIC CHEMICAL IDENTITY	% BY WT.	CAS NO.
LEAD	40 - 60	7439-92-1
LEAD DIOXIDE	15 - 40	1309-60-0
SULFURIC ACID	25 - 45	7664-93-9

3. HAZARD IDENTIFICATION



CLASSIFICATION: N/A

DANGEROUS: BATTERY MAY EXPLODE UPON CONTACT WITH FIRE.

HAZARDOUS:

ELECTROLYTE (SULFURIC ACID) MAY CAUSE BURN UPON SKIN CONTACT AND BLINDNESS UPON EYE CONTACT.

ENVIRONMENT DAMAGE:

ELECTROLYTE (SULFURIC ACID) MAY CAUSE SEVERE DAMAGE ON ANIMAL AND PLANT DUE TO STRONG ACID.

4. FIRST AIDS MEASURES



EYES:

IMMEDIATELY RINSE WITH COOL RUNNING WATER FOR AT LEAST 15 MIN. SEEK MEDICAL ATTENTION AFTER RINSING.

SKIN:

IMMEDIATELY WASH THOROUGHLY WITH SOAP AND WATER. SEEK MEDICAL ATTENTION IF BURNED.

INGESTION:

IMMEDIATELY WASH MOUTH AND GIVE LARGE QUANTITIES OF WATER.
SEEK MEDICAL ATTENTION.
DO NOT INDUCE VOMITING.
DO NOT NEUTRALIZE ACID.

5. FIRE FIGHTING MEASURES



FIGHT A FIRE WITH POWDER, FOAM AND/OR NONINFLAMMABLE GAS FIRE EXTINGUISHER.

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE OF ELECTROLYTE(SULFURIC ACID):
 NEUTRALIZE SPILLED ELECTROLYTE WITH SODIUM BICARBONATE, LIME, ETC. AND
 FLUSH WITH LARGE QUANTITIES OF WATER.
 (WEAR ACID-RESISTANT FACESHIELD, GLOVES AND BOOTS.)

7. HANDLING AND STORAGE

HANDLING:
 KEEP AWAY FROM FIRE AND SPARKS.
 DO NOT SHORT TERMINAL.
 CHARGE BATTERY IN WELL VENTILATED AREAS.

STORAGE:
 STORE BATTERY IN COOL AND DRY AREAS.
 BATTERIES SHOULD ALSO BE STORED UNDER PROTECTION AGAINST RAIN, DEW AND
 SUNLIGHT.
 KEEP AWAY FROM FIRE, DUST SOURCE, HARMFUL GAS AND IMMERSION.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NOT APPLICABLE FOR VALVE REGULATED LEAD ACID BATTERY

9. PHYSICAL & CHEMICAL PROPERTIES

NOT APPLICABLE FOR VALVE REGULATED LEAD ACID BATTERY:

REFERENCE (COMPONENT):

	ELECTROLYTE (SULFURIC ACID)	LEAD
APPEARANCE	CLEAR	SILVERY SOLID
SPECIFIC GRAVITY	1.280 - 1.320 (38 - 42 %)	11.3
BOILING POINT	110 DEG. C (34.6 %)	1740 DEG. C
MELTING POINT	- 40 DEG. C OR BELOW	327 DEG. C
SOLIDIFYING POINT	- 56.4 DEG. C (34.6 %)	
VAPOR PRESSURE	3.17 PA (30 %)	0.1 PA OR LESS (25 DEG. C)

10. STABILITY AND REACTIVITY

CORRESPOND TO SECTION 3

11. TOXICOLOGICAL INFORMATION

CORRESPOND TO SECTION 3

12. ECOLOGICAL INFORMATION



CORRESPOND TO SECTION 3

13. DISPOSAL CONSIDERATIONS



SEND TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE STATE AND LOCAL LOW AND REGULATIONS.

14. TRANSPORT INFORMATION



IF POSSIBLE, AVOID CONSOLIDATED TRANSPORTATION WITH OTHER MATERIAL.
HANDLE WITH CARE TO AVOID ACID SPILLAGE DUE TO DROP AND/OR UPSET.
BE AWARE OF BATTERY WEIGHT AND TAKE CARE OF BATTERY HANDLING.

UN RECOMMENDATION ON TRANSPORTATION:

	DOT	IATA
UN NUMBER	2800	2800
CLASS	8 (CORROSIVE)	8 (CORROSIVE)
SPECIAL PROVISION	238	A48, A67, A164

NOTE:

VALVE REGULATED LEAD ACID BATTERIES DESCRIBED ABOVE ARE REGARDED AS NON-DANGEROUS GOODS FOR TRANSPORTATION BY BOAT AND/OR AIR. AFTER OUR OWN TEST, WE JUDGE THESE BATTERIES ARE SATISFIED WITH THE SPECIAL PROVISION 238 ADDED UN NO. 2800. ALSO THESE BATTERIES ARE SATISFIED WITH THE IATA'S SPECIAL PROVISIONS A 48, A 67, A 164 PRESCRIBED IN DANGEROUS GOODS REGULATIONS.

15. REGULATORY INFORMATION



CALIFORNIA PROPOSITION 65:

THE STATE OF CALIFORNIA HAS DETERMINED THAT CERTAIN BATTERY TERMINALS CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM.

IMPORTANT:

WASH HANDS THOROUGHLY AFTER WORKING WITH BATTERIES AND BEFORE EATING, DRINKING OR SMOKING.

TSCA: NOT APPLICABLE FOR VALVE REGULATED LEAD ACID BATTERY

16. OTHER INFORMATION



NOTICE TO READERS:

THIS INFORMATION HAS BEEN COMPLIED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE COMPLIED. HOWEVER, NO REPRESENTATION, WARRANTY (EITHER EXPRESSED OR IMPLIED) OR GUARANTEE IS MADE TO THE ACCURACY, RELIABILITY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES

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ELECTROCHEMICAL EQUATION:

POSI.	ELECTROLYTE	NEGA.
PbO2	+ 2H2SO4	+ Pb CHG.<-----> DISCHG.
LEAD DIOXIDE	SULFURIC ACID	LEAD
PbSO4	+ 2H2O	+ PbSO4
LEAD SULFATE	WATER	LEAD SULFATE