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SDS

Common Name: SEALED MAINTENANCE FREE LEAD ACID BATTERIES

Manufacturer: B&B BATTERY

SDS Revision Date: 9/1/2005

SDS Format: No Format Specified

Grainger Item Number(s): 3WDA1, 3WDA6, 3WDC1, 3WDE9, 4NZT1, 4NZT2, 4NZT3, 4NZT4, 4NZT5

4NZT6, 4NZT7, 4NZT8, 4NZT9, 4NZU1, 4NZU2, 4NZU3, 4NZU4, 4NZU5,

4NZU6, 4NZU7, 4NZU8, 4NZU9, 4NZV1, 4NZV2, 4NZV3

Manufacturer Model Number(s):

MATERIAL SAFETY DATA SHEET

MSDS4088

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PRODUCT NAME: SEALED MAINTENANCE FREE LEAD ACID BATTERIES

DATE: 9/1/05

ISSUED BY: ENGINEERING

TELEPHONE NO: (323) 278-1900

HAZARDOUS COMPONENTS

COMPONENTS	%WEIGHT	TLV	LD50 ORAL	LC50 INHALATION	LC50 CONTACT
LEAD (Pb, PbO2, PbSo)	ABOUT 70%	N/A	(500) MG/KG	N/A	N/A
SULFURIC ACID	ABOUT 20%	1 MG/M3	(2.140) MG/KG	N/A	N/A
FIBERGLASS SEPARATOR	ABOUT 5%	N/A	N/A	N/A	N/A
STYRON R 478 (POLYSTYRENE)	ABOUT 5%	N/A	N/A	N/A	N/A

PHYSICAL DATA



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COMPONENTS	DENSITY	MELTING POINT	SOLUBILITY (H2O)	ODOR	APPEARANCE
LEAD	11.34	327.4 DEG. C (BOILING)	NONE	NONE	SLIVER-GRAY METAL
LEAD SULFATE	6.2	1070 DEG. C (BOILING)	40 MG/L (15 DEG. C)	NONE	WHITE POWDER
LEAD DIOXIDE	9.4	290 DEG. C (BOILING)	NONE	NONE	BROWN POWDER
SULFURIC ACID	ABOUT 1.3	ABOUT 114 DEG. C (BOILING)	100%	ACIDIC	CLEAR COLORLESS LIQUID
FIBERGLASS SEP.	N/A	N/A	SLIGHT	TOXIC	WHITE FIBROUS GLASS
478 POLYSLYRENE	N/A	N/A	NONE	NO ODOR	SOLID

FLAMMABILITY DATA

COMPONENTS	FLASHPOINT	EXPLOSIVE LIMITS	COMMENTS
LEAD	NONE	NONE	
SULFURIC ACID	NONE	NONE	
HYDROGEN		4% - 74.2%	SEALED BATTERIES CAN EMIT HYDROGEN ONLY IF OVER CHARGED (FLOAL VOLTAGE >2.4 VPC)
FIBERGLASS SEP.	N/A	N/A	TOXIC VAPORS MAY BE RELEASED. IN CASE OF FIRE: WEAR SELF-CONTAINED BREATHING APPARATUS.
478 POLYSLYRENE	NONE	N/A	TEMPERATURES OVER 300 DEG. C (572 DEG. F) MAY RELEASE COMBUSTIBLE GASES. IN CASE OF FIRE: WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

FIRST AID



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SULFURIC ACID PRECAUTIONS:

SKIN CONTACT:

FLUSH WITH WATER, SEE PHYSICIAN IF CONTACT AREA IS LARGE OR IF BLISTERS FORM.

EYE CONTACT:

CALL PHYSICIAN IMMEDIATELY AND FLUSH WITH WATER UNTIL PHYSICIAN ARRIVES.

INGESTION:

CALL PHYSICIAN. IF PATIENT IS CONSCIOUS, FLUSH MOUTH WITH WATER, HAVE THE PATIENT DRINK MILK OR SODIUM BICARBONATE SOLUTION.

DO NOT GIVE ANYTHING TO AN UNCONSCIOUS PERSON.

REACTIVITY DATA

COMPONENT SULFURIC ACID

STABILITY STABLE AT ALL TEMPERATURES

POLYMERIZATION WILL NOT POLYMARIZE

INCOMPATIBILITY REACTIVE METALS, STRONG BASES, MOST ORGANIC

COMPOUNDS

DECOMPOSITION PRODUCTS SULFURIC DIOXIDE, TRIOXIDE, HYDROGEN SULFIDE,

HYDROGEN

CONDITIONS TO AVOID PROHIBIT SMOKING, SPARKS, ETC. FROM BATTERY

CHARGING AREA. AVOID MIXING ACID WITH OTHER

CHEMICALS.

SPILL OR LEAK PROCEDURES

STEPS TO TAKE IN CASE OF LEAKS OR SPILLS:

IF SULFURIC ACID IS SPILLED FROM A BATTERY, NEUTRALIZE THE ACID WITH SODIUM BICARBONATE (BAKING SODA), SODIUM CARBON (SODA ASH), OR CALCIUM OXIDE (LIME).

FLUSH THE AREA WITH WATER DISCARD TO THE SEWAGE SYSTEMS. DO NOT ALLOW UNNEUTRALIZED ACID INTO THE SEWAGE SYSTEM.

WASTE DISPOSAL METHOD:

NEUTRALIZED ACID MAY BE FLUSHED DOWN THE SEWER. SPENT BATTERIES MUST BE TREATED AS HAZARDOUS WASTE AND DISPOSED OF ACCORDING TO LOCAL STATE, AND FEDERAL REGULATIONS. A COPY OF THIS MATERIAL SAFETY DATA MUST BE SUPPLIED TO ANY SCRAP DEALER OR SECONDARY SMELTER WITH BATTERY.



PROTECTION

EXPOSURE PROTECTION COMMENTS

SKIN RUBBER GLOVES, PROTECTIVE EQUIPMENT MUST BE WORN IF

APRON BATTERY IS CRACKED OR OTHERWISE DAMAGED.

RESPIRATORY RESPIRATOR (FOR A RESPIRATOR SHOULD BE WORN DURING RECLAIM

LEAD) OPERATIONS IF THE TLV EXCEEDED.

EYES SAFETY GOGGLES,

FACE SHIELD

ELECTRICAL SAFETY

DUE TO THE BATTERY'S LOW INTERNAL RESISTANCE AND HIGH POWER DENSITY. HIGH LEVELS OF SHORT CIRCUIT CAN BE DEVELOPED ACROSS THE BATTERY TERMINALS. DO NOT REST TOOLS OR CABLES ON THE BATTERY. USE INSULATED TOOLS ONLY.

FOLLOW ALL INSTALLATION INSTRUCTION AND DIAGRAMS WHEN INSTALLING OR MAINTAINING BATTERY SYSTEMS.

HEALTH HAZARD DATA

LEAD:

THE TOXIC EFFECTS OF LEAD ARE ACCUMULATIVE AND SLOW TO APPEAR. IT AFFECTS THE KIDNEYS, REPRODUCTIVE, AND CENTRAL NERVOUS SYSTEM.

THE SYMPTOMS OF LEAD OVEREXPOSURE ARE ANEMIA, VOMITING, HEADACHE, STOMACH PAIN (LEAD COLIC), DIZZINESS, LOSS OF APPETITE, AND MUSCLE AND JOINT PAIN. EXPOSURE TO LEAD FROM A BATTERY MOST OFTEN OCCURS DURING LEAD RECLAIM OPERATIONS THROUGH THE BREATHING OR INGESTION OF LEAD DUSTS AND FUMES.

THIS DATA MUST BE PASSED TO ANY SCRAP OR SMELTER WHEN A BATTERY IS RESOLD.

SULFURIC ACID:

SULFURIC ACID IS A STRONG CORROSIVE. CONTACT WITH ACID CAN CAUSE SEVERE BURNS ON THE SKIN AND IN THE EYES.

INGESTION OF SULFURIC ACID WILL CAUSE GI TRACT BURNS. ACID CAN BE RELEASE IF THE BATTERY CASE IS DAMAGED OR IF THE VENTS ARE TAMPERED WITH.

FIBERGLASS SEPARATOR:

FIBROUS GLASS IS AN IRRITANT OF THE UPPER RESPIRATORY TRACT, SKIN AND EYES. FOR EXPOSURE UP TO 10F/CC USE MSA COMFOLL WITH TYPE H FILTER. ABOVE 10F/CC UP TO 50F/CC USE ULTRA-TWIN WITH TYPE H FILTER.

THIS PRODUCT IS NOT CONSIDERED CARCINOGENIC BY NTP OR OSHA.



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