Child Care center

Emergency Lighting ITEM: 4PH44 - Battery Replacement

PICK REO: 1049990354

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: B0434

This MSDS should be attached or kept with the respective product with which it is associated.

SPECIFIC GRAVITY (H2O = 1): Associated Grainger Item: 4PH44 - Battery Replacement ELECTROLYTE: 1.300 HEALTH HAZARD INFORMATION (ACUTE AND CHRONIC) - SULFURIC ACID ONLY.: THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY I CARCINGER, A SUBSTANCE THAT IS CARCINGENIC TO HUMANS. THIS CLASSIFICATION DOES NOT APPLY TO LIQUID FORMS OF SULFURIC ACID OR SULFURIC ACID SOLUTIONS CONTAINED WITHIN THE BATTERY. INORGANIC ACID MIST (SULFURIC ACID SOLUTIONS NOT GENERATED UNDER NORMAL USE OF THIS FRODUCT. MISUSE OF THE FRODUCT, SUCH AS OVERCHARGING, MAY HOMEVER RESULT IN THE GENERATION OF SULFURIC ACID MIST. 4WT18, 4WT19, 3EU38, 3EU39, 3EU40, 3EU41, 3FA38, 3CE34, 3CE35, 1EP67, 1EP68 1EP69, 1EP70, 1EP74, 1FJF3, 1FJF4, 1FJF5, 1FJF6, 1FJF7, 1FJF8, 1FJF9, 1FJG1 1PJG2, 1PJG3, 1PJG4, 1PJG5, 1PJG6, 6253391 PANASONIC (R*) BATTERY SALES GROUP MATERIAL SAFETY DATA SHEET LC SEALED LEAD ACID BATTERY SERIES ROUTES OF ENTRY: BY INHALATION (MIST), SKIN AND EYES, INGESTION. ACUTE: TISSUE DESTRUCTION ON CONTACT. MAY CAUSE 2ND AND 3RD DEGREE BURNS OR BLINDINESS. INSENTION WILL CAUSE CORROSIVE BURNS ON CONTACT. MAY BE FATAL IF SWALLOWED. - SECTION T: CHEMICAL PRODUCT AND COMPANY TDENTIFICATION -PRODUCT IDENTITY: SEALED LEAD ACID BATTERY TRADE NAME: PANASONIC LC VALVE REGULATED LEAD ACID BATTERY SERIES CHRONIC: INHALATION OF MISTS MAY CAUSE UPPER RESPIRATORY IRRITATION. SIGNS AND SYMPTOMS: IRRITATION AND BURNING OF EXPOSED TISSUES. DISTRIBUTOR: PANASONIC INDUSTRIAL COMPANY - BATTERY SALES GROUP TWO PANASONIC WAY/7A-1 SECAUCUS, NEW JERSEY 07094 MEDICAL CONDITIONS RESPIRATORY DISORDERS MAY BE AGGRAVATED BY PROLONGED INHALATION OF MISTS. FOR CHEMICAL EMERGENCY: SPILL LEAK, FIRE, EXPOSURE OR ACCIDENT: CAN CHEMIREC - DAY OR NIGHT - 24 HOURS: 1-800-424-9300 SECTION IV: EMERGENCY AND FIRST AID PROCEDURES BATTERY ELECTROLYTE: OUTSIDE THE USA: 1-703-S27-3887 (COLLECT) INHALATION: MATSUSHITA BATTERY INDUSTRIAL OSAKA, 570 JAPAN MANUFACTURER : REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED, GET IMMEDIATE MEDICAL ATTENTION. EYE CONTACT FLISH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. TELEPHONE NUMBER FOR GENERAL INFORMATION: TOLL FREE: 1-800-793-3772 SKIN CONTACT REMOVE CONTAMINATED CLOTHING AND FLUSH AFFECTED AREAS WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. INTERNET: WWW.PANASONIC.COM/BATTERIES - SECTION II: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION INGESTION: DO NOT INDUCE VOMITING. DILUTE BY GIVING LARGE QUANITIES OF WATER. IF AVAILABLE GIVE SEVERAL GLASSES OF MILK. DO NOT GIVE ANYTHING BY MOUTH TO AN COMPONENT COMMON NAME CHEMICAL NAME APPROXIMATE % BY WT. OR VOL. UNCONSCIOUS PERSON. GIVE CPR IF BREATHING HAS STOPPED. GET IMMEDIATE MEDICAL ATTENTION. LEAD (NEGATIVE ELECTRODE 48-53 WI% Pb AND GRID) SECTION VI FIRE AND EXPLOSION HAZARD DATA -LEAD OXIDE (POSITIVE ELECTRODE) PbO2 23-26% FLASH POINT: NOT APPLICABLE LEAD SULFATE (POSITIVE AND NEGATIVE PbSO4 <1. WT% FLAMMABLE LIMITS: ECTRODE LOWER: 4.10% (HYDROGEN GAS) UPPER: 74.20% (ELECTROLYTE) 7-10 WT% SULFURIC ACID H2904 EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, HALON OR CO2. OSHA PEL ACGIH TLV CAS# COMPONENT SPECIAL FIRE FIGHTING PROCEDURES: IF BATTERIES ARE ON CHARGE, TURN OFF POWER. USE POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS IN FIGHTING FIRE. WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPLATTER. WEAR ACID RESISTANT 0.05 MG/M3 0.15 MG/M3 7439-92-1 LEAD LEAD OXTDE 0.05 MG/M3 0.15 MG/M3 1309-60-0 CLOTHING, VENTILATE AREA WELL. LEAD SULFATE 0.05 MG/M3 0.15 MG/M3 7446-14-2 UNUSUAL FIRE AND EXPLOSION HAZARDS: HYDROGEN AND OXYGEN GASES ARE GENERATED IN CELLS DURING NORMAL BATTERY OPERATION OR WHEN ON CHARGE. (HYDROGEN IS FLAMMABLE AND OXYGEN SUPPORTS COMBUSTION). THESE GASES ENTER THE AIR THROUGH THE VENT CAPS DURING BATTERY OVERCHARGING. TO AVOID RISK OF FIRE OR EXPLOSION, KEEP SPARKS AND CHHER SOURCES OF IGNITION AWAY FROM THE BATTERY. DO NOT ALLOW METAL OBJECTS TO SIMULTANEOUSLY CONTACT BOTH POSITIVE AND NEGATIVE TERMINAL OF BATTERIES. SULFURIC ACID 1.0 MG/MB 1.0 MG/M3 7664-93-9 PERCENTAGES OF COMPONENTS ARE DEPENDANT BOTH ON THE MODEL OF THE BATTERY AND STATE OF CHARGE/DISCHARGE OF THE BATTERY. SULFURIC ACID IS REPORTABLE UNDER SECTIONS 302, 311, 312 AND 313 OF THE EMERGENCY FLANNING AND COMMINITY RIGHT-TO-KNOW ACID OF 1986 (EPCRA). REPORTABLE QUANTITY: 500 IBS FOR SULFURIC ACID AND 10,000 IBS FOR LEAD. SEE SECTION XII FOR MORE INFORMATION VENTTLATE AREA WELL. MORE INFORMATION. SECTION VI: REACTI OVERALL CHEMICAL REACTION: Pb02 + Pb + 2H2SO4 2PbSO4 + 2H2O STABILITY: STABLE UNDER NORMAL CONDITIONS. CONDITIONS TO AVOID: SPARKS AND OTHER SOURCES OF IGNITION. PROLONGED OVERCHARGE. FIRE OR NOTE NOTE: PANASONIC SEALED LEAD ACID BATTERIES ARE A SEALED, NON-SPILLABLE DESIGN. UNDER NORMAL USE AND HANDLING THE CUSICMER HAS NO CONTACT WITH THE INTERNAL COMPONENTS OF THE BATTERY OR THE CHEMICAL HAZARDS. UNDER NORMAL USE AND HANDLING THESE BATTERIES DO NOT BYTHE CHEMICAL HAZARDS. UNDER NORMAL USE AND KARNING: BATTERY TERMINALS/POSTS AND RELATED OR HAZARDOUS SUBSTANCES. WARNING: BATTERY TERMINALS/POSTS AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REFORE FAITING, DRINKING OR SMOKING. EXPLOSION HAZARD DUE TO POSSIBLE HYDROGEN GAS GENERATION. TNCOMPATTRITITY COMBINATION OF SULFURIC ACID WITH COMBUSTIBLES AND ORGANIC MATERIALS MAY CAUSE FIRE AND EXPLOSION. AVOID STRONG REDUCING AGENTS, MOST METALS, CARBIDES, CHLORATES, NITRATES, PICRATE. HAZARDOUS DECOMPOSITION PRODUCTS: HYDROGEN GAS MAY BE GENERATED IN AN OVERCHARGED CONDITION, IN FIRE OR AT VERY HIGH TEMPERATURES. CO, CO2 AND SULFUR OXIDES MAY EMIT IN FIRE. HAZARDOUS POLYMERIZATION WILL NOT OCCUR. - SECTION III: PHYSICAL / CHEMICAL CHARACTERISTICS -BOILING POINT: ELECTROLYTE: 110 DEG. C - 112 DEG. C SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE -STEPS TO BE TAKEN IN CASE OF BROKEN BATTERY CASE OR ELECTROLYTE LEARAGE: NEUTRALIZE ANY ELECTROLYTE OR EXPOSED INTERNAL BATTERY PARTS WITH SODA ASH (SODIUM BICARBONATE) UNTIL FIZZING STOPS, KEEP UNITRAINED PERSONNEL AWAY FROM ELECTROLYTE AND BROKEN BATTERY, PLACE BROKEN BATTERY AND CLEAN-UP MATERIALS IN A PLASTIC BAG OR NON-METALLIC CONTAINER. DISPOSE OF CLEAN-UP MATERIALS AS A HAZARDOUS WASTE, VENTILATE AREA AS HYDROGEN GAS MAY BE GIVEN OFF DURING NEURDAL VALUE. VAPOR PRESSURE: ELECTROLYTE: 11.7 MMHg. AT 20 DEG. C VAPOR DENSITY (AIR = 1): ELECTROLYTE: 3.4 SOLUBILITY IN WATER: LEAD, LEAD OXIDE AND LEAD SULFATE ARE INSOLUBLE IN WATER. SULFURIC ACID IS 100% SOLUBLE IN WATER. NEUTRALIZATION. WASTE DISPOSAL METHOD: FEDERAL AND STATE LAWS PROHIBIT THE IMPROPER DISPOSAL OF ALL LEAD ACID BATTERIES. THE BATTERY END USERS (OWNERS) ARE RESPONSIBLE FOR THEIR BATTERIES FROM THE DATE OF FURCHASE THROUGH THEIR ULTIMATE DISPOSAL. THE ONLY LEGALLY ACCEPTABLE METHOD OF DISPOSAL OF LEAD ACID BATTERIES IS TO APPEARANCE AND ODOR: THE ENTIRE BATTERY IS A SOLID ARTICLE CONSISTING OF AN OPAQUE PLASTIC CASE WITH TWO PROTRUDING LEAD TERMINALS. THE BATTERY IS ODORLESS. SULFURIC ACID THE TS A LTOUTD.

RECYCLE THEM AT A RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) APPROVED SECONDARY LEAD SMELTER. THE PANASONIC SAV-LEAD RECYCLING PROGRAM ALLOWS FOR THE RECYCLING OF LEAD-ACID BATTERIES IN AN ENVIRONMENTALLY SOUND MANNER. FOR MORE INFORMATION ON THE SAV-LEAD RECYCLING PROGRAM CALL TOLL-FREE, 1-800-SAV-LEAD (1800-728-5323). THESE BATTERIES ARE CHEMICALLY IDENTICAL TO COMMON AUTOMOTIVE STARTER BATTERIES AND CAN BE RECYCLED WITH AUTOMOTIVE LEAD-ACID BATTERIES.

HAZARDOUS WASTE CODES: D002, D008.

PRECAUTIONS TO BE TAKEN IN HANDLING, STORING AND TRANSPORTATION: STORE IN COCL, DRY AREA AWAY FROM COMBUSTIBLE MATERIALS. DO NOT STORE IN SEALED, UNVENTILATED AREAS. AVOID OVERHEATING AND OVERCHARGING.

OTHER PRECAUTIONS: THAN RECOMMENDED CHEMICAL CLEANERS ON BATTERY.

- SECTION VIII: CONTROL MEASURES/PERSONAL PROTECTION -

GENERAL:

NORMAL ROOM VENTILATION IS SUFFICIENT DURING NORMAL USE AND HANDLING. RECOMMEND 2 TO 3 ROOM AIR CHANGES PER HOUR TO PREVENT BUILDUP OF HYDROGEN

PERSONAL PROTECTIVE EQUIPMENT (IN THE EVENT OF BATTERY CASE BREAKAGE): ALMAYS WEAR SAFETY GLASSES WITH SIDE SHIELDS OR FULL FACE SHIELD. USE RUBBER OR NEOPRENE GLOVES. WEAR ACID RESISTANT BOOTS, APRON OR CLOTHING.

WORK/HYGIENIC PRACTICES

WORK/HYGIENIC PRACTICES: REMOVE JEWELKY, RINGS, WATCHES AND ANY OTHER METALLIC OBJECTS WHILE WORKING ON BATTERIES. ALL TOOLS SHOULD BE ADEQUATELY INSULATED TO AVOID THE POSSIBILITY OF SHORTING CONNECTIONS. DO NOT LAY TOOLS ON TOP OF BATTERY. BE SURE TO DISCHARES STATIC ELECTRICITY FROM TOOLS AND INDIVIDUAL PERSON BY TOUCHING A GROUNDED SURFACE IN THE VICINITY OF THE BATTERIES, BUT AWAY FROM CELLS. BATTERIES ARE HERVY. SERIOUS INJURY CAN RESULT FROM IMPROPER LIFTING OR INSTALLATION. DO NOT LIFT, CARRY, INSTALL OR REMOVE CELLS BY LIFTING OR FULLING THE TERMINAL POSTS FOR SAFETY REASONS AND BECAUSE TERMINAL POSTS AND POST SERIES MAY BE DAMAGED. DO NOT WEAR WILCH CLOTHES OR OVERALLS AS THEY CAN CREATE STATIC ELECTRICITY. DO KEEP A FIRE EXTINGUISHER AND EMERGENCY COMMUNICATIONS DEVICE IN THE WORK AREA.

IMPORTANT

DEVICE AND STHOROUGHLY AFTER WORKING WITH BATTERIES AND BEFORE EATING, DRINKING OR SMOKING.

SECTION IX: REGULATORY INFORMATION -

NFPA HAZARD RATING FOR SULFURIC ACID: HEALTH (BLUE) 3 FLAMMABILITY (RED) 0 REACTIVITY (YELLOW) 2

- SECTION X: TRANSPORTATION INFORMATION -

IDENTIFICATION AND PROPER SHIPPING NAME: BATTERIES - WET, NON-SPILLABLE, ELECTRIC STORAGE, UN 2800.

DOT: UNREGULATED, MEETS THE REQUIREMENTS OF 49 CFR 173,159 (D).

LATA/ICAO: UNREGULATED, MEETS THE REQUIREMENTS OF SPECIAL PROVISION A67.

IND: UNREGULATED.

FOR ALL MODES OF TRANSPORTATION, EACH BATTERY AND OUTER PACKAGE MUST BE LABELED:

"NON-SPILLABLE" OR "NON-SPILLABLE BATTERY." THIS LABEL MUST BE VISIBLE DURING TRANSPORTATION. * BATTERIES MUST BE SECURELY PACKED TO PREVENT SHORT-CIRCUITING.

- SECTION XI: CALIFORNIA PROPOSITION 65 INFORMATION

THE STATE OF CALIFORNIA HAS DETERMINED THAT CERTAIN BATTERY TERMINALS CONTAIN LEAD AND LEAD COMPOUNDS, AND HANDLING THIS PRODUCT MAY ALSO EXPOSE YOU TO SULFURIC ACLD MIST, 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.

- SECTION XII: OTHER INFORMATION -

NOFICE TO READERS:

1.2.

GENERAL PRODUCT DESCRIPTION - LC VRLA BATTERIES: GENERAL PRODUCT DESCRIPTION - LC VRLA BATTERIES: FANASONIC LC BATTERIES ARE SEALED (VALVE RESULATED) NON-SPILLABLE LEAD-ACID BATTERIES WITH PASTED LEAD-CALCIUM PLATES. THE ELECTROLYTE IS HELD CAPITVE IN AN ABSORBED GLASS MAT (ACM) SEPARATOR BETWEEN PLATES THAT IMMOBILIZE THE ELECTROLYTE IN THE CELL. ACM SEPARATOR MATERIAL IS A HIGHLY POROUS, ABSORBENT AUCRO FIEDERLASS MAT MIXED WITH POLYMER FIBERS. THERE IS NO "FREE" ELECTROLYTE 'IN LEAK OUT IF THE CELL IS TIPED OVER (CELL CASE AND COVER ARE SEALED TOGETHER) OR IF THE CELL IS PINCTURED. THE ACM SEPARATOR MATERIAL IMMOBILIZES THE ELECTROLYTE AND CHEATES A SITUATION WHERE THE SEILL OF ELECTROLYTE IS WIGHLY INLIKELY TYPICAL ACCIDENTS WHERE A MATTERY CASE IS PUNCTURED RESULTS IN A SLIGHT DRIP OR A SLOW COZE OF MATERIAL OUT OF THE CELL THAT CANNOT BE CHARACTERIZED AS A SPILL.

PANASONIC LC VRLA BATTERIES ARE ALSO DIFFERENT FROM CONVENTIONAL UNSEALED (WET/FLOODED) CELLS BECAUSE THEY CONTAIN ONLY A MINIMUM AMOUNT OF ELECTROLYTE. VRLA BATTERY ELECTROLYTE IS A DILUTE MIXTURE OF SULFURIC ACID IN WATER, WHICH TYPICALLY HAS A SPECIFIC GRAVITY BEIMEEN 1.270 AND 1.3. SPECIFIC GRAVITY IS A MEASURE OF THE DENSITY OF A LIQUID AS COMPARED TO THAT OF WATER, WHICH HAS A SPECIFIC GRAVITY OF 1.000. PURE SULFURIC ACID HAS A SPECIFIC GRAVITY OF 1.835.

NOTE: PANASONIC LC BATTERIES DO NOT CONTAIN A GEL ELECTROLYTE.

DIRING NORMAL BATTERY INSTALLATION, OPERATION AND MAINTENANCE, THE USER HAS IND CONTACT WITH THE INTERNAL COMPONENTS OF THE BATTERY OR ITS INTERNAL HERARDOUS CHEMICALS.

PANASONIC LC BATTERIES ARE UL RECOGNIZED UNDER THE FILE NUMBER: MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD. MATSUSHITA ELECTRIC CORP. OF AMERICA

FILE # MH13723 1' PANASONIC WAY

SECAUCUS. NJ 07094.

NOTICE TO READERS:

NUTLE TO REPORT. DISCLAIMER: THIS INFORMATION HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND IS, TO THE BEST OF OUR KNOWLEDGE AND BELLEF, ACCURATE AND RELIABLE AND IS, TO THE BEST OF OUR KNOWLEDGE AND BELLEF, ACCURATE AND RELIABLE AS OF THE DATE COMPILED. HOWEVER, NO REPRESENTATION, WARRANTY (EITHER EXPRESSED OR IMPLIED) OR GURRANTED IN THE THE ACCURACY, RELIABILITY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALUD FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUCH MATERIAL SALES COMPANIES DO NOT ACCEPT LIABILITY FOR ANY LOSS OR DAMAGE THAT MAY OCCUR, WHETHER DIRECT, INDIRECT, INCIDENTAL OR ONNEQUENTIAL, FROM THE USE OF THIS INFORMATION NOR DO WE OFFER WARRANTY AGAINST PATHENT INFRIMEMENT. CELL AND BATTERY FRODUCT(S) OR INFORMATION CONTAINED HEREIN ARE SUBJECT TO CHANCE WITHOUT NOTICE. NO LIABILITY IS ASSUMED AS A RESULT OF THEIR USE OR APPLICATION.

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PANASONIC (R*) IS A REGISTERED TRADEMARK OF MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

MSDS PREPARATION DATE: 9/2005

SUPERSEDES: 5/2001

PREPARER: CHARLES P. MONAHAN DTRECTOR, REGULATORY COMPLIANCE DIRECTOR, RE 201-392-6464

REVISED: SEPTEMBER 05

FORM: MSDS-LC 01/R2

ORDER: 1049990354

ITEM: 4PH44 - Battery Replacement

HAZMAT: 4PH44

HAZARD MATERIAL WARNING SHEET (HAZMAT)

When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFO	RMATION
STOCK #	: 4PH44
MSDS #	: B0434
FREIGHT CODE	: 0298
DOT PROPER SHIP NAME	: BATTERIES, NON-SPILLABLE
UPS RESTRICTIONS	:
HAZARDOUS CLASS NUMBER	:
UN ID #	
PACKING GROUP	:
SHIPPING LABEL	:
LIMITED QUANTITY	:
CARTON INSTRUCTIONS	: CAN REAPCK IN GRAINGER S CARTON
DOT/UPS EXEMPTION NO.	: 0
COMMENTS	: HAZARDOUS MATERIAL. DO NOT SHIP AIR!! CARTON MUST READ "NON-SPILLABLE".
SHIPPING-PAPERS	:
PLACARD OFFERED ? YES	() NO () PLEASE MARK ONE