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SAFT AMERICA INC. POWER SOURCES DIV. -- NICKEL-CADMIUM SEALED CELL BATTERY-MP 505 T -- 6140-00-406-7683

Product ID:NICKEL-CADMIUM SEALED CELL BATTERY-MP 505 T MSDS Date:02/28/1991 FSC:6140 NIIN:00-406-7683 MSDS Number: BPBYD === Responsible Party === Company Name: SAFT AMERICA INC. POWER SOURCES DIV. Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA ZIP :31603 Country:US Info Phone Num:912-247-2331 Emergency Phone Num:912-247-2331 CAGE:09052 === Contractor Identification === Company Name: PERROTT ENGINEERING LABS INC Address:7201 LEE HIGHWAY Box:City:FALLS CHURCH State:VA ZIP:22046-3706 Country:US Phone:703-532-0700 CAGE:23759 Company Name: SAFT AMERICA INC. Address:711 INDUSTRIAL BLVD Box:1886 City:VALDOSTA State:GA ZIP:31602 Country:US Phone:912-247-2331 CAGE:09052

Ingred Na

me:CADMIUM (SARA III)-TOTAL PERCENTAGE OF INGREDIENTS 1, 2 AND 3 IS:8 - 20. CAS:7440-43-9 RTECS #:EU9800000 Other REC Limits:NONE RECOMMENDED OSHA PEL:SEE 1910.1027 ACGIH TLV:0.01 MG/M3 DUST;9394 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:CADMIUM HYDROXIDE Fraction by Wt: SEE #1% Other REC Limits:NONE RECOMMENDED OSHA PEL:NOT ESTABLISHED. ACGIH TLV:NOT ESTABLISHED.

Ingred Name:CADMIUM OXIDE (SARA III) CAS:1306-19-0 RTECS #:EV1925000 Fraction by Wt: SEE #1% Other REC Limits:NONE RE COMMENDED OSHA PEL:SEE 1910.1027 ACGIH TLV:0.05 MG(CD)/M3; 9293

Ingred Name:NICKEL (SARA III) - TOTAL PERCENTAGE OF INGREDIENTS 4, 5 AND 6 IS: 15 - 35. CAS:7440-02-0 RTECS #:QR5950000 Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9293

Ingred Name:NICKEL HYDROXIDE (SARA III) CAS:12054-48-7 RTECS #:QR7040000 Fraction by Wt: SEE #4% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG NI/M3 ACGIH TLV:0.1 MG NI/M3; 9293 EPA Rpt Qty:10 LBS DOT Rpt Qty:10 LBS

Ingred Name:NI

CKEL OXIDE CAS:1313-99-1 RTECS #:QR8400000 Fraction by Wt: SEE #4% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 AS NI ACGIH TLV:1 MG/M3 AS NI

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 225 CADMIUM & CD(OH)2 Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES Health Hazards Acute and Chronic:ACUTE-VAPOR/DUST MAY CAUSE **IRRITATION, DRYNESS OF MOUTH &** THROAT.HE ADACHE, NAUSEA, DIZZINESS, UPPER RESPIRATORY TRACT/LUNG DAMAGE.MAY BE FATAL.CHRONIC-LOW LEVEL EXPOSURE OF CD COMPOUNDS IN AIR MAY CAUSE I RREVERSIBLE LUNG INJURY, KIDNEY DISEASE & OTHER ADVERSE EFFECTS. Explanation of Carcinogenicity: CADMIUM & NICKEL - REASONABLY ANTICIPATED TO BE A CARCINOGEN (NTP). NI & NI COMPOUNDS -CARCINOGENIC TO HUMAN (IARC). Effects of Overexposure: VAPOR/DUST MAY CAUSE IRRITATION, DRYNESS OF MOUTH & THROAT, HEADACHE, NAUSEA, DIZZINESS, UPPER RESPIRATOR Y TRACT/LUNG DAMAGE. MAY BE FATAL. MAY CAUSE RESPIRATORY SYSTEM DISORDERS, PROSTATE DISORDERS, LIVER AND KIDNEY DISORDERS. Medical Cond Aggravated by Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED KIDNEY OR RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE. First Aid:GET MEDICAL ATTENTION IMMEDIATELY.EYE/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEA ST 15 MINUTES.HOLD EYELIDS OPEN.INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED.ORAL:IF CONSCIOUS.INDUCE VO MITING.GET EMERGENCY MEDICAL ATTENTION.

Flash Point:NONE Extinguishing Media:WATER SPRAY, CO2, FOAM/DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard:CONTACT WITH STRONG OXIDIZERS MAY CAUSE FIRE OR EXPLOSION. CADMIUM FUMES OR VAPORS ARE TOXIC AND CAN CAUSE DEATH.

Spill Release Procedures:CONTAIN THE SPILL. COLLECT THE SPILLED MATERIAL AND PLACE IN A PLASTIC-LINED CONTAINER. HEPA VACUUMING IS PREFERRED. WASH THE AREA WITH WATER. Neutralizing Agent:WEAK ACID

 Handling and Storage Precautions:STORAGE- AVOID BREAKING, CRUSHING OR OTHERWISE DESTROYING THE PHYSICAL INTEGRITY OF THE CELL OR BATTERY.
Other Precautions:DO NOT INCINERATE. DO NOT TOUCH BROKEN BATTERIES.
WASH THOROUGHLY AFTER HANDLING. DO NOT GENERATE DUST. DO NOT BREATHE DUST.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection: USE NIOSH APPROVED DUST MASK WHEN HANDLING THE BROKEN BATT

ERIES.

Ventilation: USE ADEQUATE LOCAL EXHAUST VENTILATION WHEN HANDLING THE BROKEN BATTERIES.

Protective Gloves:NATURAL RUBBER (BROKEN BATTERIES)

Eye Protection: SAFETY GOGGLES (FOR BROKEN BATTERIES)

Other Protective Equipment: EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING. Supplemental Safety and Health

HCC:Z5

Spec Gravity:1.6 Appearance and Odor:ORANGE-BLACK (NICKEL HYDROXIDE), SILVER METAL(CD, NI)

Stability Indicator/Materials to Avoid:YES STRONG OXIDIZING AGENTS, NITRIC ACID Stability Condition to Avoid:EXCESSIVE HEAT, FIRE Hazardous Decomposition Products:CADMIUM OXIDE FUMES/VAPORS/DUST

Waste Disposal Methods:CELLS AND B

ATTERIES MAY BE RETURNED AT SENDERS EXPENSE TO A PERMITTED TREATMENT, STORAGE, DISPOSAL FACILITY (TSDF). DISPOSAL MUST BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAW S AND REGULATIONS.

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