

SAFT AMERICA INC. TRANSPORTATION DIV. -- NICKEL-CADMIUM BATTERY, VENTED BB 433A/A --  
6140-01-046-1116

===== Product Identification =====

Product ID:NICKEL-CADMIUM BATTERY, VENTED BB 433A/A  
MSDS Date:08/03/1993  
FSC:6140  
NIIN:01-046-1116  
MSDS Number: BRZYS  
=== Responsible Party ===  
Company Name:SAFT AMERICA INC. TRANSPORTATION DIV.  
Address:711 INDUSTRIAL BLVD  
Box:1886  
City:VALDOSTA  
State:GA  
ZIP:316  
03  
Country:US  
Info Phone Num:912-247-2331  
Emergency Phone Num:912-247-2331  
Preparer's Name:CECOM SAFETY OFFICE  
CAGE:09052

=== Contractor Identification ===  
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

===== Composition/Information on Ingredients =====

Ingred Name:CADMIUM (SARA III) CADMIUM & CADMIUM HYDROXIDE 14-15%  
CAS:7440-43-9  
RTECS #:EU9800000  
Fraction by Wt: 14-15%  
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 CADMIUM & CADMIUM HYDROXIDE 14-15%  
CAS:21041-95-2  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.1 MG/M3 (CD FUME)  
ACGIH TLV:0.05 MG/M3 (CD FUME)

Ingred Name:NICKEL (SARA III) NICKEL AND NICKEL HYDROXIDE 26%  
CAS:7440-02-0  
RTECS #:QR5950000  
Fraction by Wt: 26%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3; 9293

Ingred Name:NICKEL  
HYDROXIDE (SARA III) NICKEL & NICKEL HYDROXIDE 26%  
CAS:12054-48-7  
RTECS #:QR7040000  
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:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Fraction by Wt: 6.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:C, 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

===== Hazards Identification =====

LD50

LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INTACT BATTERIES PRESENT NO SPECIFIC HAZARDS. BURNING BATTERIES MAY EMIT TOXIC FUMES. LEAKING BATTERIES LEAK CORROSIVE MATERIAL IRRITATING TO SKIN, EYES AND MUCOUS MEMBRANES

Explanation of Carcinogenicity:CD, NI, ARE NTP SUSPECT CARCINOGENS. CD IS IARC CARCINOGEN.

Effects of Overexposure:EL

ELECTROLYTE EXPOSURE TO SKIN/EYES WILL CAUSE SEVERE IRRITATION. INHALATION OF FUMES MAY CAUSE SEVERE RESPIRATORY IRRITATION.

Medical Cond Aggravated by Exposure:RESPIRATORY ALIMENTS- W/BURNING BATTERIES SKIN CONDITIONS- W/ LEAKING BATTERIES

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First Aid Measures  
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First Aid:IF BATTERY CONTENTS COME IN CONTACT WITH THE BODY WASH AFFECTED AREA FOR AT LEAST 15 MINUTES WITH CLEAN WATER.DO NOT ATTEMPT TO NEUTRALIZE. SEEK MEDICAL ATTENTI ON PROMPTLY.

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Fire Fighting Measures  
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Extinguishing Media:CARBON DIOXIDE OR DRY CHEMICAL FIRE EXTINGUISHER, 10- B:C

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE SELF CONTAINED BREATHING APPARATUS. BATTERY/CELLS MAY RELEASE TOXIC FUMES, IF SUBJECT TO FIRE/EXTREME HEAT.

Unusual Fire/Explosion Hazard:STRONG OXIDERIZERS (E.G.,ACIDS) AND FIRE.

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Accidental Release Measures  
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Spill Release Procedures:S

PILL OR LEAK PROCEDURES (PRECAUTIONS FOR SAFE HANDLING & USE) AVOID SKIN OR EYE CONTACT. USE NON FLAMMABLE ABSORBENT MATERIAL FOR CLEAN-UP. COORDINATE WITH INSTALLATION SAFETY AND ENVIRONMENTAL OFFIC ES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:DO NOT ABUSE OR SHORT CIRCUIT. STORE COOL, DRY AND IN A WELL VENT AREA. SEPARATE FROM OTHER HAZARDOUS MATERIALS. AREA APPR

OVED BY LOCAL FIRE DEPARTM

Other Precautions:DO NOT INVERT BATTERY OR CAUSE TO SPILL. RECHARGE IAW  
METHODS SPECIFIED IN APPLICIABLE TECHNICAL MANUAL. DO NOT  
OVERCHARGE.

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

Respiratory Protection:IF BATTERIES ARE BURNING USE SCBA

Ventilation:CONTACT LOCAL SAFETY/INDUSTRIAL HYGIENE OFFICE TO DETERMINE  
IF LOCAL EXHAUST VENTILATION IS NEEDED

Protective Gloves:CHEMICAL RESISTANT GLOVES

Eye Protection:CHEMICAL SAFETY GLASS  
ES/GOGGLES

Other Protective Equipment:CHEMICAL RESISTANT APRON

Work Hygienic Practices:AVOID SKIN EYE CONTACT WITH ELECTROLYTE. DO NOT  
EAT OR SMOKE IN BATTERY SERVICE AREA.

Supplemental Safety and Health

CONTRACT # DAAB07-89-B-C075. THIS MSDS WAS CODED FROM A CECOM MATERIAL  
SAFETY DATA SHEET NOT THE MANUFACTUERS. CECOM SAFETY OFFICE, FT  
MONMOUTH, NJ 07703-5024 AUTOVON 995-3112.\*\*AMMENDED ON 05FEB97(FP  
-D):ADDED MGR,HCC AND SPEC NUMBER;CHANGED ITEM NAME TO CORRESPOND  
TO DLSC\*

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===== Physical/Chemical Properties =====

HCC:Z5

pH:UNK

Appearance and Odor:NICKEL-CADMIUM BATTERY,VENTED

Percent Volatiles by Volume:UNK

Corrosion Rate:UNK

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS (E.G., ACIDS). STORE SEPARATELY FROM OTHER  
HAZARDOUS MATERIALS

Stability Condition to Avoid:FIRE AND EXTREME HEAT. DO NOT SHORT  
CIRCUIT OR OVERCHARGE

Hazardous Decompo

sition Products:WHEN EXPOSED TO FIRE OR EXTREME HEAT,  
BATTERIES MAY EMIT TOXIC FUMES

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSAL MUST BE IN ACCORDANCE WITH ALL  
APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. COORDINATE WITH  
SUPPORTING INSTALLATION AND/OR MACOM ENVIRONMENTAL OFFICE PRIOR TO  
DISPOSAL

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