

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:3
1603
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 RE

C 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 =====

LD

50 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:

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

=====
===== First Aid Measures =====

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 ATTENTION PROMPTLY.

=====
===== Fire Fighting Measures =====

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.

=====
===== Accidental Release Measures =====

Spill Release Procedures

:SPILL 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.

=====
===== Handling and Storage =====

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 AP

PROVED 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.

=====
===== 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 GLA

SSES/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 DLS

C**

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

HCC:Z5

pH:UNK

Appearance and Odor:NICKEL-CADMIUM BATTERY,VENTED

Percent Volatiles by Volume:UNK

Corrosion Rate:UNK

=====
===== 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 Decom

position 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

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.