

DOUGLAS BATTERY MFG CO -- LEAD/ACID STORAGE BATTERY -- 6140-01-134-5413

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Product Identification  
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Product ID:LEAD/ACID STORAGE BATTERY  
MSDS Date:05/01/2000  
FSC:6140  
NIIN:01-134-5413  
Status Code:A  
MSDS Number: CKWTG  
=== Responsible Party ===  
Company Name:DOUGLAS BATTERY MFG CO  
Address:500 BATTERY DR  
Box:12159  
City:WINSTON-SALEM  
State:NC  
ZIP:27117-2159  
Country:US  
Info Phone Num:800-368-4527

Emergency Phone Num:(336)650-7245/7257  
Chemtrec Ind/Phone:(800)424-9300  
CAGE:63432  
=== Contractor Identification ===  
Company Name:BATTERY OUTLET OF HAMPTON INC  
Address:2815 GEORGE WASHINGTON HWY  
Box:City:TABB  
State:VA  
ZIP:23602  
Country:US  
Phone:804-867-8280  
Contract Num:SP0413-01-M-0417  
CAGE:0FTM0  
Company Name:DOUGLAS BATTERY MFG CO  
Address:500 BATTERY DR  
Box:12159  
City:WINSTON-SALEM  
State:NC  
ZIP:27107  
Country:US  
Phone:800-368-4527  
CAGE:63432

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Composition/Information on Ingredient  
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Ingred Name:LEAD/LEAD OXIDE/LEAD SULFATE  
CAS:7439-92-1  
RTECS #:OF7525000  
= Wt:60.  
ACGIH TLV:0.15 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ANTIMONY  
CAS:7440-36-0  
RTECS #:CC4025000  
Minumum % Wt:.5  
Maxumum % Wt:2.5  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG/M3  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC  
CAS:7440-38-2  
RTECS #:CG0525000  
&lt; Wt:.1  
ACGIH TLV:0.01 MG/M3  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID (BATTERY ELECTROLYTE)  
CAS:7664  
-93-9  
RTECS #:WS5600000  
Minumum % Wt:10.  
Maxumum % Wt:38.  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3  
ACGIH STEL:3 MG/M3  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:CALCIUM  
CAS:7440-70-2  
RTECS #:EV8040000  
&lt; Wt:.15

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:CHRONIC: ACID CAN CAUSE IRRITATION OF  
EYES, NOSE, THROAT. BRE

ATHING MIST PRODUCES RESPIRATORY DIFFICULTY,  
CONTACT WITH SKIN AND EYS CAUSES IRRITATION AND SKIN BURN. ACUTE:  
REPEATED CONTACT WITH SULFUR IC ACID BATTERY ELECTROLYTE FLUID MAY  
CAUSE DRYING OF THE SKIN WHICH MAY RESULT IN IRRITATION AND  
DERMATITIS. PROLONGED INHALATION OF A MIST OF SULFURIC ACID CAN  
CAUSE INFLAMMATION OF THE UPPER RESPIR ATORY TRACT LEADING TO  
CHRONIC BRONCHITIS. SHORT TERM LIQUID OR VAPOR CONTACT MAY RESULT  
IN EYE IRRITATION AND ACID BURNS. PROLONGE

D CONTACT TO STRONG ACID

FUMES MAY RESULT IN EROSION OF TOOTH ENAMEL.

Explanation of Carcinogenicity:THE INTERNATIONAL AGENCY FOR RESEARCH ON  
CANCER (IARC) HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING  
SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN, A SUBSTANCE THAT IS  
CARCINOGENIC TO HUMANS. THIS CLASSIFICATION DOES NOT APPLY TO  
LIQUID FORMS OF SULFURIC ACID OR SULFURIC ACID SOLUTIONS CONTAINED  
WITHIN A BATTERY.

Effects of Overexposure:CHRONIC: ACID CAN CAUSE IRRITAT  
ION OF EYES,

NOSE, THROAT. BREATHING MIST PRODUCES RESPIRATORY DIFFICULTY,  
CONTACT WITH SKIN AND EYS CAUSES IRRITATION AND SKIN BURN. ACUTE:  
REPEATED CONTACT WITH SULFUR IC ACID BATTERY ELECTROLYTE FLUID MAY  
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RRITATION AND ACID BURNS. PROLONGED CONTACT TO STRONG ACID  
FUMES MAY RESULT IN EROSION OF TOOTH ENAMEL.

Medical Cond Aggravated by Exposure:SULFURIC ACID MIST MAY IRRITATE  
BRONCHIAL SYSTEM, EYES AND SKIN.

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

First Aid:SULFURIC ACID-INHALATION: MOVE TO VENTILATED AREA. OBTAIN  
MEDICAL ATTENTION. EYES: WASH THE EYES WITH COPIOUS QUANTITIES OF  
RUNNING WATER FOR 15 MINUTES. OBTAIN MEDICAL ATTENTION. SKIN: FLUSH  
AR

EA WIT H LARGE AMOUNTS OF RUNNING WATER. REMOVE CONTAMINATED  
CLOTHING AND OBTAIN MEDICAL ATTENTION. INGESTION: WASH OUT MOUTH  
WITH RUNNING WATER. DO NOT INDUCE VOMITING. CALL PHYSICIAN.

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

Autoignition Temp:=357.2C, 675.F

Autoignition Temp Text:POLYPR

Lower Limits:4.1%

Upper Limits:74.2%

Extinguishing Media:HALON, DRY CHEMICAL.

Fire Fighting Procedures:LEAD/ACID BATTERIES DON'T BURN, OR BURN WITH  
DIFFICULTY. EXTINGUI

SH FIRE WITH AGENT SUITABLE FOR SURROUNDING COMBUSTIBLE MATERIALS. COOL EXTERIOR OF BATTERY IF EXPOSED TO FIRE TO PREVENT RUPTURE. THE ACID MIST AND VAPORS GENERATED BY HEAT OR FIRE ARE CORROSIVE. WEAR RESPIRATORY PROTECTION (SCBA) & PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:HYDROGEN GAS & SULFURIC ACID VAPORS ARE GENERATED UPON OVERCHARGING. HYDROGEN GAS MAY BE FLAMMABLE OR EXPLOSIVE WHEN MIXED WITH AIR, OXYGEN, OR CHLORINE. ENSURE ADEQUATE VENTILATION OF C

HARGING AREAS CONSISTENT WITH OSHA (29 CFR 1910 &1926), NATIONAL FIRE CODE, ACGIH AND OTHER RELEVANT STANDARDS.

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

Spill Release Procedures:WEAR PROTECTIVE CLOTHING. VENTILATE ENCLOSED AREAS. DIKE TO CONTAIN CONTAMINATED MATERIALS & LIQUIDS. LIMIT SITE ACCESS TO QUALIFIED EMERGENCY RESPONDERS. NEUTRALIZE ACID SPILLS WITH SODIUM BICARBONAT E (SODA ASH), CALCIUM CARBONATE, AGRICULTURAL LIME OR EQUIVALENT COMMERCIAL PRODUCT. COLLECT ALL MATERIAL FOR PROPER DISPOSAL.

Neutralizing Agent:SODIUM BICARBONATE (SODA ASH), CALCIUM CARBONATE, AGRICULTURAL LIME OR EQUIVALENT COMMERCIAL PRODUCT.

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

Handling and Storage Precautions:STORE BATTERIES IN COOL, DRY, WELL-VENTILATED AREA. DO NOT SHORT CIRCUIT BATTERY TERMINALS OR REMOVE VENT CAP DURING STORAGE OR CHARGING. AVOID ROUGH HANDLING WHICH COULD RESULT IN SPILLS OR LEAKS. DO NOT SMOKE OR USE OPEN FLAMES IN CHARGING AREAS. WASH THOROUGHLY AFTER HANDLING PRODUCT.

Other Precautions:AVOID PROLONGED OVERCHARGING OR COMBUSTION WHICH COULD LIBERATE HAZARDOUS GASES AND LIQUIDS INCLUDING HYDROGEN, SULFURIC ACID, SULFURIC ACID MIST, SULFUR DIOXIDE, SULFUR TRIOXIDE, ARSINE OR STIBINE GA S. MATERIAL SHOULD BE KEPT ON SITE FOR SPILL NEUTRALIZATION AND CONTAINMENT.

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

Respiratory Protection:S

ULFURIC ACID MIST-FULL FACE OR HALF MASK  
RESPIRATOR WITH ACID MIST FILTER OR SCBA.

Ventilation:CHANGE AIR EVERY 15 MIN. LOCAL EXHAUST: NO.  
MECHANICAL(GENERAL): NO INFORMATION FOUND.

Protective Gloves:ACID RESISTANT RUBBER OR PLASTIC.

Eye Protection:SPLASH RESISTANT GOGGLES OR SAFETY GLASSES WITH FACE  
SHIELD.

Other Protective Equipment:ACID RESISTANT RUBBER OR PLASTIC APRON,  
BOOTS AND PROTECTIVE CLOTHING.

Supplemental Safety and Health

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Physical/Chemical Proper  
ties =====

HCC:C1

Boiling Pt:=135.C, 275.F

B.P. Text:ELECTROLYTE

Melt/Freeze Pt:>160.C, 320.F

M.P/F.P Text:POLYPROPYLENE

Vapor Pres:ELECTROLYTE-1MMHG@145.8F

Vapor Density:0.069 HYDR

Spec Gravity:ELECTROLYTE-1.080-1.400

pH:ELECTROLYTE