

CROWN BATTERY MFG CO -- BATTERIES,WET,FILLED WITH ACID,24-70 -- 6140-01-337-0210

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

Product ID:BATTERIES,WET,FILLED WITH ACID,24-70

MSDS Date:01/19/1996

FSC:6140

NIIN:01-337-0210

Status Code:A

MSDS Number: CJFVN

=== Responsible Party ===

Company Name:CROWN BATTERY MFG CO

Address:1445 MAJESTIC DR

Box:990

City:FREMONT

State:OH

ZIP:43420-0990

Country:US

Info Phone Num:419-334-7181

Emergency Phone Num:800-487-2879/800OILTANK

CAGE:1X

630

=== Contractor Identification ===

Company Name:CROWN BATTERY MFG CO

Address:1445 MAJESTIC DR

Box:City:FREMONT

State:OH

ZIP:43420-0990

Country:US

Phone:419-334-7181

CAGE:1X630

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

Ingred Name:LEAD

CAS:7439-92-1

RTECS #:OF7525000

= Wt:23.5

Other REC Limits:NONE RECOMMENDED

OSHA PEL:0.05 MG/M3

ACGIH TLV:0.15 MG/M3

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:LEAD SULFATE

CAS:7446-14-2

RTECS #:OG4375000

= Wt:13.2

Other REC Limi

ts:NONE RECOMMENDED
OSHA PEL:see 1910.1025
ACGIH TLV:0.15 MG/M3
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:LEAD OXIDE
CAS:1309-60-0
RTECS #:OG0700000
= Wt:13.
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.05 MG/M3 (PB)
ACGIH TLV:0.05 MG/M3 (PB)

Ingred Name:POLYPROPYLENE CASE MTL
= Wt:5.4
Other REC Limits:NONE RECOMMENDED

Ingred Name:RUBBER CASE MTL
= Wt:1.
Other REC Limits:NONE RECOMMENDED

Ingred Name:SEPARATORS
= Wt:3.5
Other REC Limits:NONE RECOMMENDED

Ingred Name:SULFURIC ACID
CA
S:7664-93-9
RTECS #:WS5600000
= Wt:3.2
Other REC Limits:NONE RECOMMENDED
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:WATER
CAS:7732-18-5
RTECS #:ZC0110000
= Wt:19.2
Other REC Limits:NONE RECOMMENDED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: EYE, S

KIN, RESPIRATORY

AND GASTROINTESTINAL TRACTS. ACUTE - ELECTROLYTE (WATER, SULFURIC ACID): INHALATION OF MIST MAY CAUSE SEVERE RESPIRATORY IRRITATION. INGESTION MAY CAUSE SEVERE IRRITATION AND/OR BURNS OF MOUTH, THROAT, ESOPHAGUS, STOMACH. SKIN CONTACT CAUSES SEVERE IRRITATION, BURNS, ULCERATION. EYE CONTACT MAY CAUSE SEVERE IRRITATION, BURNS, CORNEAL DAMAGE, BLINDNESS. LEAD COMPOUNDS: IF BATTERY IS HEATED ABOVE MELTING POINT, OXIDIZED OR DAMAGED, DUST, VAPOR OR FUME

MAY

CAUSE EYE AND RESPIRATORY TRACT IRRITATION, ABDOMINAL PAIN. CHRONIC - EROSION OF TEETH ENAMEL, BRONCHITIS, ANEMIA, NEUROPATHY, KIDNEY DAMAGE.

Explanation of Carcinogenicity:CONTAINS LEAD.

Effects of Overexposure:IRRITATION OF EXPOSED AREA, BURNS, AND RESPIRATORY PROBLEMS, TEARING, BLINDNESS, PAIN. NO POSSIBILITY OF OVER EXPOSURE OF LEAD WILL OCCUR UNLESS BATTERY IS DESTROYED.

Medical Condition Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS

OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IN CASE OF LEAD, GARGLE, WASH NOSE AND LIPS. CONSULT PHYSICIAN. EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYELIDS, UNTIL NO EVIDENCE OF CHEMICAL REMAINS.

CONSULT PHYSICIAN IMMEDIATELY. SKIN: REMOVE CONTAMINATED CLOTHING AND SHOES. FLUSH SKIN WITH WATER FOR AT LEAST 15 MINUTES. IN CASE OF LEAD, WASH WITH SOAP AND WATER. INGESTION: DO NOT INDUCE VOMITING. GIVE MILK TO DRINK. SEEK IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:NOT COMBUSTIBLE

Extinguishing Media:FOR FIRES IN AREA: DRY CHEMICAL, CARBON DIOXIDE, WATER FOG, WATER

Fire Fighting Procedures:SUL

FURIC ACID MISTS OR VAPORS, SULFUR DIOXIDE
GAS OR CARBON MONOXIDE MAY BE RELEASED. WEAR NIOSH APPROVED SELF
CONTAINED BREATHING APPARATUS.
Unusual Fire/Explosion Hazard:WATER APPLIED TO SULFURIC ACID GENERATES
HEAT AND CAUSES ACID TO SPLATTER. WEAR FULL-COVER SULFURIC ACID
RESISTANT CLOTHING. SULFURIC ACID REACTS VIOLENTLY WITH METALS TO
YIELD EXPLOSIVE/FLAMMABLE HYDROGEN GAS.

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

Spill Release Procedures:WEAR
ACID-RESISTANT CLOTHING, BOOTS, GLOVES,
FACE SHIELD. STOP FLOW OF MATERIAL. CONTAIN/ABSORB SMALL SPILL WITH
DRY SAND, EARTH, VERMICULITE. DO NOT USE COMBUSTIBLES. IF POSSIBLE,
CAREFULLY NEUTRALIZE SPILLED ELECTROLYTE OR EXPOSED BATTERY PARTS
WITH SODA ASH, SODIUM BICARBONATE, LIME, ETC. DO NOT ALLOW
DISCHARGE OF UNNEUTRALIZED ACID TO SEWER. PLACE IN AN APPROVED
CONTAINER FOR REUSE/DISPOSAL.
Neutralizing Agent:SODA ASH, SODIUM BICARBONATE, LIME

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

Handling and Storage Precautions:STORE BATTERIES UNDER ROOF IN COOL,
DRY, WELL-VENTILATED AREA AWAY FROM IGNITION SOURCES, AND
INCOMPATIBLE MATERIALS. STORE AND HANDLE ONLY IN AREAS WITH
ADEQUATE WATER SUPPLY AND SPILL CONTROL. AVOID DAMAGE TO
CONTAINERS. USE ONLY RECOMMENDED CHEMICAL CLEANERS ON THE
BATTERIES.
Other Precautions:CONTACT WITH METALS MAY PRODUCE TOXIC SULFUR DIOXIDE
FUMES AND MAY ALSO RELEASE FLAMMABLE HYDROGEN
GAS. THIS REACTION IS
INTENSIFIED WHEN DILUTED. DO NOT TOUCH BROKEN/LEAKING BATTERIES.
AVOID MECHANICAL/ELECTRICAL ABUSE. KEEP OUT OF REACH OF CHILDREN.
DO NOT SHORT CIRCUIT BATTERY.

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

Respiratory Protection:ABOVE P.E.L. NIOSH APPROVED, FITTED, FULL FACE
RESPIRATOR
Ventilation:LOCAL EXHAUST IS PREFERRED. MECHANICAL: IF BELOW P.E.L.
SPECIAL & OTHER: MUST BE ACID AND EXPLOSIVE RESISTANT.
Protective Gloves:ACID

RESISTANT (RUBBER, NEOPRENE)
Eye Protection:FULL FACE PROTECTION
Other Protective Equipment:ACID RESISTANT CLOTHING, BOOTS, EYE BATH,
WASHING FACILITY, EMERGENCY SHOWER
Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING,
DRINKING OR SMOKING.
Supplemental Safety and Health

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

HCC:C1
Boiling Pt:=95.C, 203.F
B.P. Text:APPROXIMATELY
Melt/Fr
eeze Pt:=-37.2C, -35.F
M.P/F.P Text:-35F TO +10.6F
Vapor Pres:14@37%@80F
Vapor Density:>1
Spec Gravity:1.245-1.295 ELECTROLYTE
pH:ACIDIC
Solubility in Water:100% (ELECTROLYTE)
Appearance and Odor:CLEAR LIQUID WITH SHARP PUNGENT ODOR (ELECTROLYTE)

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

Stability Indicator/Materials to Avoid:YES
AVOID COMBUSTIBLES, ORGANIC MATERIALS, AND STRONG REDUCING AGENTS.
Stability Condition to Avoid:NONE
Hazardous Decomposition Products:SULFUR
TRIOXIDE, CARBON MONOXIDE,
SULFURIC ACID FUMES, & SULFUR DIOXIDE.

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

Waste Disposal Methods:DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL,
STATE, AND FEDERAL LAWS AND REGULATIONS.

===== Other Information =====

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