

SHIN-KOBE ELECTRIC MACHINERY CO LTD -- BATTERY -- 6140-01-117-9646

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Product Identification
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Product ID:BATTERY

MSDS Date:06/13/1994

FSC:6140

NIIN:01-117-9646

MSDS Number: BTKTN

=== Responsible Party ===

Company Name:SHIN-KOBE ELECTRIC MACHINERY CO LTD

Address:1-1 NISHI SHINJUKU 2-CHO SHINJUKO-KU

City:TOKYO JAPAN

Preparer's Name:DLA-HMIS STAFF

CAGE:MO966

=== Contractor Identification ===

Company Name:SHIN ELECTRIC

CAGE:S5799

Company Name:SHIN-KOBE ELECTRIC MACHINERY CO LTD

Address:1-1 NISHI SHINJUKU 2-CHO SHINJUKO-KU

Box:City:TOKYO JAPAN

CAGE:MO966

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Composition/Information on Ingredients
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Ingred Name:LEAD (SARA III)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.15 MG/M3;DUST 9394

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Other REC

Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/M3; 9394

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 2140 MG/KG (H2SO4)

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

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

Health Hazards Acute and Chronic:ACUTE: MAY CAUSE IRRITATION OF
RESPIRATORY TRACT, EYES, SKIN OR GI TRACT. MAY CAUSE BURNS OF SKIN,
EYES, OR GI TRAC

T. MAY CAUSE CORNEAL DAMAGE OR BLINDNESS. CHRONIC:
TOOTH EROSION, INFLAMMATION OF NOS E, THROAT AND BRONCHIAL TUBES.

Explanation of Carcinogenicity:THE ELECTROLYTE IS NOT LISTED BY IARC,
NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:INHALATION: BURNING SENSATION IN NOSE, THROAT
AND LUNGS, COUGHING, WHEEZING, SHORTNESS OF BREATH. EYES: REDNESS,
TEARING, BLURRED VISION, BURNS, SEVERE PAIN. SKIN: SEVERE PAIN,
BURNS, REDNESS, RASH, I TCHING. INGESTION: BURNS OF MOUTH, THR

OAT,
AND ESOPHAGUS, SEVERE STOMACH PAIN, NAUSEA, VOMITING.

Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS
OR WITH A PRE-EXISTING DISEASE INVOLVING THE RESPIRATORY TRACT OR
TEETH MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING.
GET MEDICAL ATTENTION. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER
FOR 15 MINUTES HOLDING EYELI

DS OPEN. GET PROMPT MEDICAL ATTENTION.

SKIN :REMOVE CONTAMINATED CLOTHING. WASH WITH PLENTY OF WATER FOR
15 MINUTES. GET MEDICAL ADVICE. INGESTION:DO NOT INDUCE VOMITING.
GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL
ATTENTION.

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

Extinguishing Media:USE DRY CHEMICAL, CARBON DIOXIDE, FOAM, HALOGEN.

Fire Fighting Procedures:USE OF WATER IN EXTINGUISHING BURNING
BATTERIES MAY CAUSE SPATTERING DUE

TO THE PRESENCE OF MOLTEN LEAD.

WEAR SCBA AND FULL PROTECTIVE GEAR.

Unusual Fire/Explosion Hazard:AFTER ELECTROLYTE IS ADDED AND BATTERY IS BEING CHARGED, HYDROGEN GAS IS PRODUCED. BATTERY MAY EXPLODE IF HYDROGEN GAS TRAPPED INSIDE THE CASE SHOULD IGNITE.

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

Spill Release Procedures:SHOULD A BATTERY BREAK OPEN, ISOLATE AREA. ELECTROLYTE SHOULD BE ABSORBED WITH A NON-ORGANIC TYPE ABSORBENT SUCH AS DRY SAND OR

EARTH. AVOID DILUTION WITH WATER. LEAD SPILLED FROM THE BATTERY SHOULD B E VACUUMED, DO NOT SWEEP OR USE COMPRESSED AIR.

Neutralizing Agent:USE SODA ASH OR BAKING SODA TO NEUTRALIZE THE ELECTROLYTE.

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

Handling and Storage Precautions:AVOID THE USE OF UNINSULATED TOOLS. IF THEY ARE REQUIRED, TAKE CARE NOT TO ELECTRICALLY SHORT THE TERMINALS. REMOVE METAL JEWELRY BEFORE SERVICING.

Other Precautions:UNDER NORMAL CONDITIONS OF USE, EXPOSURE TO LEAD OR LEAD CONTAINING COMPOUNDS DOES NOT OCCUR. SHOULD A BATTERY BREAK OPEN AND A LEAD SPILL OCCUR, PRECAUTIONS SHOULD BE TAKEN TO PREVENT LEAD DUST FROM BECOMING AIR BORNE.

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

Respiratory Protection:UNDER NORMAL CONDITIONS OF USE, RESPIRATORY PROTECTION IS NOT REQUIRED. HOWEVER, IF CONDITIONS ARISE THAT REQUIRE THEIR USE, USE ONLY NIOSH/MSHA RESPIRATORS APPROVED FOR DUST , FUME AND MIST.

Ventilation:BATTERY CHARGING AREAS MUST BE ADEQUATELY VENTILATED TO PREVENT HAZARDOUS CONCENTRATIONS OF FLAMMABLE GAS OR ACID MIST.

Protective Gloves:RUBBER GLOVES APPROVED FOR SULFURIC ACID

Eye Protection:CHEMICAL SPLASH GOGGLES AND FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER. INDUSTRIAL-TYPE IMPERVIOUS WORK CLOTHING, BOOTS AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDU

RES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

RQ FOR CERCLA AND SARA III IS 1000 LBS (ELECTROLYTE). MSDS GENERATED BY
DLA-HMIS STAFF FOR TECHNICAL SUPPORT. MSDS NOT AVAILABLE CURRENTLY
FROM MFR; WHEN ONE IS AVAILABLE, CURRENT HMSI RECORD WILL BE
UPDATED.

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

HCC:C1

Boiling Pt:B.P. Text:203F,95C

Vapor Pres:10

Vapor Density:>1

Spec Gravity:1.23-1.35

pH:1

Evaporation Rate & Referenc
e: