SAFETY DATA SHEET

EFFECTIVE January, 2013

SECTION I

PRODUCT NAME: BATTERY, DRY - UNFORMED
CHEMICAL NAME: LEAD / ACID STORAGE BATTERY
CHEMICAL FAMILY: TOXIC MATERIAL
FORMULA: LEAD / LEAD OXIDE

HAZARD IDENTIFICATION

<table>
<thead>
<tr>
<th>MATERIALS</th>
<th>CAS NUMBER</th>
<th>PERCENT</th>
<th>TLV (units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEAD / LEAD OXIDE</td>
<td>7439-92-1</td>
<td>60</td>
<td>0.05 mg/m³</td>
</tr>
<tr>
<td>ANTIMONY ALLOY</td>
<td>7440-36-0</td>
<td>1-5</td>
<td>0.5 mg/m³</td>
</tr>
<tr>
<td>ARSENIC</td>
<td>7440-38-2</td>
<td>LESS THAN .01%</td>
<td>.01 mg/m³</td>
</tr>
<tr>
<td>SULFURIC ACID</td>
<td>7664-93-9</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

GHS PICTOGRAM

<table>
<thead>
<tr>
<th>DANGER</th>
<th>CORROSIVE</th>
<th>IRRITANT</th>
<th>LEAD</th>
</tr>
</thead>
</table>

SECTION II

PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR PRESSURE (mm Hg): N/A
VAPOR DENSITY (air = 1): N/A
SOLUBILITY IN WATER: 10-20 MG. PER LITER
PERCENT, VOLATILE BY VOLUME(%): 0%
EVAPORATION RATE: 0
APPEARANCE AND ODOR: NONE

SECTION III

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II
EFFECTS OF OVEREXPOSURE:
EYES: IRRITATION
SKIN: IRRITATION
INHALATION: BREATHING OF OXIDE DUST MAY CAUSE RESPIRATORY DAMAGE.
SECTION IV (cont.)

INGESTION: CAN LEAD TO BOTH ACUTE AND CHRONIC SYSTEMIC HEALTH EFFECTS

EMERGENCY AND FIRST AID PROCEDURES:
SEeks MEDICAL ATTENTION
FOR ALL EXPOSURE EMERGENCIES

EYES: WASH WITH COPIOUS QUANTITIES OF RUNNING WATER
SKIN: WASH WITH SOAP AND WATER
INGESTION: INDUCE VOMITING

SECTION V

FIRE AND EXPLOSION HAZARD DATA - FIRE FIGHTING MEASURES

Flash Point: N/A
Flammable Limits: Lel 0% Uel 0%
Extinguishing Media: HALON OR DRY CHEMICAL EXTINGUISHER
Unusual Fire and Explosion Hazards: NONE

Ventilate Charging Areas: WELL VENTILATED AREAS RECOMMENDED

SECTION VI

ACCIDENTAL SPILL OR RELEASE PROCEDURES

PRODUCT CONTAINS DRY PLATES. NO LEAKAGE IS EXPECTED UNDER NORMAL CONDITIONS AND TRANSPORTATION. IN CASE OF ACCIDENTAL SPILLAGE OF PLATES, DUST AND LEAD COMPOUNDS SHOULD BE CONTAINED. PARTICULATE MATTER SHOULD STORED IN A DRY CONTAINER AND DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS FOR LEAD PRODUCTS. DO NOT USE COMPRESSED AIR OR DRY SWEEPING AS A MEANS OF CLEANING. VACUUMING IS RECOMMENDED.

WASTE DISPOSAL METHOD: IN ACCORDANCE WITH EXISTING REGULATIONS.

SECTION VII

SAFE HANDLING AND STORAGE

Respiratory Protection: USE HEPA RESPIRATORS WHEN LEAD DUST IS PRESENT.
Ventilation: N/A
Protective Gloves: RUBBER GLOVES SHOULD BE WORN WHEN HANDLING.
Eye Protection: SAFETY GLASSES
Other Protective Equipment: RUBBER OR PLASTIC APRON

WHEN HANDLING AND STORING, KEEP AWAY FROM FLAMES DURING AND IMMEDIATELY AFTER CHARGING.

AvoID PROLONGED OVERCHARGING

THRoughLY WASH HANDS WITH SOAP AND WARM WATER

SECTION VIII

EXPOSURE CONTROLS/PERSONAL PROTECTION

MATERIALS

TLV (units)
LEAD / LEAD OXIDE 0.05 mg/m³
ANTIMONY ALLOY 0.5 mg/m³
ARSENIC .01 mg/m³
SULFURIC ACID 0%

PEL’s (units)
LEAD / LEAD OXIDE 50 mg/m³
ANTIMONY ALLOY 2 mg/m³
ARSENIC 0.01 mg/m³
SULFURIC ACID N/A
RESPIRATORY PROTECTION: WHERE ENGINEERING AND WORK PRACTICE CONTROLS DO NOT REDUCE EMPLOYEE EXPOSURE TO OR BELOW THE 50 ug/m3 PERMISSIBLE EXPOSURE LIMIT, THE EMPLOYER SHALL SUPPLEMENT THESE CONTROLS WITH WITH RESPIRATORS IN ACCORDANCE WITH APPLICABLE REGULATIONS.

HAND PROTECTION: LATEX AND/OR NITRILE UNLINED RUBBER GLOVES WITH AT LEAST A 20 MIL, 12” IN LENGTH.

EYE PROTECTION: NIOSH SAFETY APPROVED GLASSES WITH SIDE SHIELDS, OR PROTECTIVE GOGGLES OR FACE SHIELD RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT: RUBBER OR PLASTIC APRON, STEEL TOED BOOTS/SHOES

SECTION IX

PHYSICAL / CHEMICAL CHARACTERISTICS
VAPOR DENSITY (air = 1): N/A
SOLUBILITY IN WATER: 10-20 MG. PER LITER
PERCENT, VOLATILE BY VOLUME(%): 0%
EVAPORATION RATE: 0
APPEARANCE AND ODOR: NONE

SECTION X

REACTIVITY DATA
STABILITY: H-3,F-0,S- '\text{W};R-0 \text{ \ STABLE UNDER NORMAL CONDITIONS}
CONDITIONS TO AVOID: AVOID DISMANTLING AND EXPOSURE TO INTERNAL COMPONENTS.
INCOMPATIBILITY: NONE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION XI

TOXICOLOGICAL INFORMATION
 ROUTES OF EXPOSURE: EYES: SEVERE BURNS, CORNEA DAMAGE AND BLINDNESS.
       SKIN: SEVERE IRRITATION, BURNING AND ULCERATION.
       INHALATION: BREATHING OF VAPORS OR MIST MAY CAUSE RESPIRATORY DAMAGE.
       INGESTION: BURNS TO MOUTH, THROAT AND INTESTINAL TRACT.

ACUTE EFFECTS: DECREASED APPETITE, INSOMNIA, HEADACHE MUSCLE AND JOINT PAIN, COLIC, CONSTIPATION

CHRONIC EFFECTS: WEAKNESS, WEIGHT LOSS, NAUSEA, VOMITING, CONSTIPATION, BLUE OR BLACK DOT LIKE PIGMENTATION ON THE GUMS (lead line), SEVERE HEADACHES, ABDOMINAL CRAMPS, DELIRIUM, CONVULSIONS, COMA

WARNING: PROPOSITION 65 LEAD AND IT'S COMPOUNDS ARE CHEMICALS KNOW TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE HARM TO BOTH MALES AND FEMALES AND TO CAUSE BIRTH DEFECTS.

TOXICITY DATA: LEAD: NO DATA AVAILABLE
REPRODUCTIVE TOXICITY: LEAD IS KNOWN TO CAUSE BIRTH DEFECTS IN HUMANS AND ANIMALS
WARNING: CARCINOGENIC TO HUMANS (IARC - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER).
WARNING: PROPOSITION 65
LEAD AND IT'S COMPOUNDS ARE CHEMICALS KNOW TO THE STATE OF CALIFORNIA TO CAUSE REPRODUCTIVE HARM TO BOTH MALES AND FEMALES AND TO CAUSE BIRTH DEFECTS.
DOT SHIPPING NAME: BATTERIES, DRY - UNFORMED
IDENTIFICATION NUMBER: N/A
HAZARD CLASS: N/A
SHIPPING LABELS: NONE REQUIRED
PLACARD (when required) NONE REQUIRED

SECTION XII
ECOLOGICAL INFORMATION
LEAD IS VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. PREVENT SPILLAGE FROM ENTERING DRAINS OR WATER WAYS.

SECTION XIII
DISPOSAL CONSIDERATIONS
U.S. E.P.A. DEPARTMENT OF TRANSPORTATION, AND/OR STATE AND LOCAL REGULATIONS SHALL BE FOLLOWED TO ASSURE THAT REMOVAL, TRANSPORT, AND DISPOSAL ARE IN ACCORDANCE WITH EXISTING REGULATIONS.
HAZARDOUS MATERIALS TRANSPORTERS LICENSE
MCS-90 ENDORSEMENT

SECTION XIV
TRANSPORT INFORMATION
DOT SHIPPING NAME: BATTERIES, DRY - UNFORMED
IDENTIFICATION NUMBER: NA
HAZARD CLASS: NA
SHIPPING LABELS: NONE REQUIRED
PLACARD (when required) NONE REQUIRED

SECTION XV
REGULATORY INFORMATION
TSCA REGISTRY
CALIFORNIA PROP. 65 WARNING
SARA TITLE III
FEDERAL CARRIER ACCIDENT REGISTRY
CALIFORNIA MOTOR CARRIER PERMIT
HAZARDOUS MATERIALS TRANSPORTERS LICENSE
MCS-90 ENDORSEMENT

SECTION XVI
OTHER INFORMATION
SDS ORIGINALLY PREPARED: 09/10/2013
SDS LAST REVISED: 10/16/2013 (SECTIONS 11-16)

FOR FURTHER GUIDANCE IN CHANGES TO THIS SDS, PLEASE CONTACT US BATTERY MFG. CO. SAFETY OFFICE (951) 371-8090.M-F 6:00AM - 2:00PM

END
rev.10/16/2013 db-1