

ACUMULATORS DEL NORCESTE -- BATTERY ELECTRIC STORAGE,WET SPENT,ZBDMF 31 DS-W --  
6140-01-294-9072

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Product Identification  
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Product ID:BATTERY ELECTRIC STORAGE,WET SPENT,ZBDMF 31 DS-W

MSDS Date:05/15/1997

FSC:6140

NIIN:01-294-9072

MSDS Number: CFZBP

=== Responsible Party ===

Company Name:ACUMULATORS DEL NORCESTE

Address:CALLE CRUE SUR NO 10

City:LA JO

Country:FR

Info Phone Num:800-443-1672

Emergency Phone Num:800-443-1672

CAGE:MO637

=== Contractor Identification ===

Company Name:ACUMULADORES DEL NOROESTE, S.A. DECV

Address:CALLE CRUZ DEL SUR NO. 10 PEACC LA JOYA

Box:City:TIJUNNA, B.C.

Country:MX

Phone:1-800-443-1672

CAGE:MO637

Company Name:BATTERY EMPORIUM AND TECHNOLOGY

Address:1462 CALLE MARBELLA

Box:City:OCEANSIDE

State:CA

ZIP:92056

Country:US

Phone:760-630-1848

CAGE:05BF1

Company Name:NAVISTAR INTERNATIONAL CORP., TRUCK BRANCH, OHIO

Address:6125 URBANA ROAD

Box:600

City:SPRIN

GFIELD

State:OH

ZIP:45501

Country:US

Phone:312-836-2000

CAGE:89346

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Composition/Information on Ingredients  
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Ingred Name:LEAD (SARA 313) (CERCLA)

CAS:7439-92-1

RTECS #:OF7525000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:SEE 1910.1025

ACGIH TLV:0.05MG/M3, A3; 9596

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred Name:ELECTROLYTE/SULFURIC ACID (SARA 302/313) (CERCLA)

CAS:7664-93-9

9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT RELEVANT.  
Routes of Entry: Inhalation:NO Skin:NO Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS, LUNG, GI TRACT. ACUTE- LEAD MAY CAUSE GI UPSET, DIARRHEA, CRAMPING & FATIGUE. SULFURIC ACID MAY CAUSE EYE, SKIN & RESPIRATORY TRACT IRRITATION, BURN S, CORNEAL & LUNG DAMA GE. CHRONIC- LEAD MAY CAUSE ANEMIA, KIDNEY & NERVOUS SYSTEM DAMAGE. ACID CAN CAUSE BRONCHITIS, EROSION OF TOOTH ENAMEL.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:GI UPSET, LOSS OF APPETITE, DIARRHEA, CONSTIPATION, CRAMPING, LACK OF SLEEP, FATIGUE, SEVERE IRRITATION, BURNS, CORNEAL AND LUNG DAMAGE, BLINDNESS, ULCERATION, WRIST DROP, REPRODUCTIVE CHANGES  
Medical Cond Aggravated by Exposure:LEAD AND ITS COMPOUNDS CAN AGGRAVATE CHRONIC FORMS OF KIDNEY, LIVER AND NEUROLOGIC DISEASES. CONTACT OF SULFURIC ACID WITH SKIN MAY AGGRAVATE DISEASES SUCH AS ECZEMA. ACID MIST AGGRAVATES LUNG DISEASE

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

First Aid:OBTAIN MEDICAL ATTENTION IMMEDIATELY IN ALL CASES OF EXPOSURE. EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. KEEP EYELIDS OPEN. INHALATION:REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING IS DIF FICULT, PROVIDE OXYGEN. INGESTION:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER OR MILK.

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

Flash Point:NON-FLAMMABLE  
Lower Limits:NOT RELEVANT  
Upper Limits:NOT RELEVANT  
Extinguishing Media:USE CARBON DIOXIDE, SAND, HALON/DRY CHEMICAL. WATER APPLIED TO ELECTROLYTE GENERATES HEAT AND CAUSES IT TO SPATTER.  
Fire Fighting Procedures:WEAR ACID-RESISTANT CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPE

RATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard: BATTERY CELLS MAY RUPTURE WHEN EXPOSED TO EXCESSIVE HEAT. THIS COULD RESULT IN RELEASE OF CORROSIVE MATERIALS. HYDROGEN GAS, IF PRESENT, IS EXPLOSIVE/FLAMMABLE.

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

Spill Release Procedures: WEAR PROTECTIVE EQUIPMENTS. VENTILATE AREA. REMOVE IGNITION SOURCES (H<sub>2</sub> MAY BE PRESENT). CONTAIN BY DIKING AND COVER SPILL WITH SODA ASH OR QUICKLIME. MIX WELL.

CHECK THAT

MIXTURE IS NEUTRAL. COLLECT AND PLACE IN A DRUM. DO NOT FLUSH TO SEWER.

Neutralizing Agent: SODA ASH (SODIUM CARBONATE), QUICKLIME (CALCIUM OXIDE)

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

Handling and Storage Precautions: STORE NEAR EYEWASH FOUNTAIN AND SAFETY SHOWER. STORAGE AREA SHOULD BE EQUIPPED WITH A DRAIN WHICH CAPTURES SPILLS OF ACID FOR PROPER DISPOSAL.

Other Precautions: KEEP TERMINALS COVERED. AVOID SHORTING BATTERIES. DO NOT

CRACK/OVERCHARGE BATTERIES. KEEP LIGHTED CIGARETTES, SPARKS, AND FLAMES AWAY FROM BATTERIES. KEEP OUT OF REACH OF CHILDREN. AVOID METALLIC ARTICLES TO CONTACT TERMINALS OF A BATTERY.

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

Respiratory Protection: NOT REQUIRED UNDER NORMAL USE. USE NIOSH-APPROVED ACID-MIST FILTER RESPIRATOR IF 1 MG/M<sup>3</sup> TWA IS EXCEEDED (ACID).

Ventilation: ADEQUATE GENERAL VENTILATION

Protective Gloves: RUBBER

Eye Protection: SPLASH-PRO OF CHEMICAL GOGGLES

Other Protective Equipment: RUBBER APRON AND BOOTS. EYES WASH STATION AND SAFETY SHOWER. USE ACID-PROOF CLOTHING FOR MAJOR SPILLS.

Work Hygienic Practices: REMOVE METALLIC JEWELRY-SHOCK POTENTIAL. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING AND DRINKING.

Supplemental Safety and Health

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

HCC: C1

NRC/State Lic Num: NOT RELEVANT

Viscosity: NOT RELEVANT

Evaporation Rate & Reference: NOT RELEVANT

Solub

ility in Water:NOT RELEVANT

Appearance and Odor:BATTERY CONTAINING SULFURIC ACID AND LEAD.

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

Stability Indicator/Materials to Avoid:YES

COMBUSTIBLES, ORGANIC MATERIALS, METALS, REDUCING AGENTS, SULFUR TRIOXIDE, WATER, BASES

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES, OVERCHARGING, SMOKING, SPARKS

Hazardous Decomposition Products:LEAD OXIDE, HYDROGEN, SULFUR DIOXIDE, SULFUR TRIOXIDE, METAL FUMES, SULFURIC ACID MIST

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

Waste Disposal Methods:DISPOSE AS HAZARDOUS WASTE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS FOR ACID OR LEAD SCRAP. SEND BATTERIES TO LEAD SMELTER FOR RECLAMATION FOLLOWING APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

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