

**MSDS Information on  
Sealed Lead – Acid Battery /  
Lead Acid, Sealed, Wet Charged –  
Battery Assembly**

YUASA-EXIDE -- NP SERIES LEAD-ACID BATTERY - BATTERY  
ASSEMBLY, LEAD ACID, SEALED, WET CHARGED  
SEALED LEAD-ACID BATTERY - BATTERY ASSEMBLY, LEAD ACID, SEALED, WET CHARGED  
MATERIAL SAFETY DATA SHEET

NSN: 6135012724048

Manufacturer's CAGE: 77280

Part No. Indicator: A

Part Number/Trade Name: SEALED LEAD/ACID BATTERY

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General Information  
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Item Name: BATTERY ASSEMBLY, LEAD ACID, SEALED, WET CHARGED

Company's Name: INTERSTATE ALL BATTERY CENTER

Company's Street: 1700 DIXON STREET

Company's City: DES MOINES

Company's State: IA

Company's Country: US \*

Company's Zip Code: 50316

Company's Emerg Ph #: 1-800-424-9300

Company's Info Ph #: 1-800-424-9300/1-800-203-6549

Safety Data Action Code: C

Record No. For Safety Entry: 001

Tot Safety Entries This Stk#: 001

Status: SEU

Date MSDS Prepared: MARCH 15, 2002

Safety Data Review Date: MARCH 15, 2002

MSDS Serial Number: BMTZY

Specification Number: NONE

Spec Type, Grade, Class: NONE

Hazard Characteristic Code: N1

Unit Of Issue: EA

Type Of Container: BATTERY CASE

Net Unit Weight: UNKNOWN

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Ingredients/Identity Information  
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Proprietary: NO

Ingredient: SULFURIC ACID (SARA III)

Ingredient Sequence Number: 01

Percent: 32-40

NIOSH (RTECS) Number: WS5600000

CAS Number: 7664-93-9

OSHA PEL: 1 MG/M3

ACGIH TLV: 1 MG/M3; 9192

Other Recommended Limit: NONE SPECIFIED  
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Proprietary: NO  
Ingredient: LEAD (BATTERY INTERNALS OF LEAD) (SARA III)  
Ingredient Sequence Number: 02  
Percent: UNKNOWN  
NIOSH (RTECS) Number: OF7525000  
CAS Number: 7439-92-1  
OSHA PEL: 0.05 MG/M3;1910.1025  
ACGIH TLV: 0.15 MG/M3;DUST 9192  
Other Recommended Limit: NONE SPECIFIED

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Physical/Chemical Characteristics

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Appearance And Odor: COLORLESS, TRANSPARENT, NO ODOR (NOTE DESCRIPTION OF ELECTROLYTE NOT BATTERY)  
Boiling Point: 203F, 95C  
Melting Point: UNKNOWN  
Vapor Pressure (MM Hg/70 F): 10 MM  
Vapor Density (Air=1): 1  
Specific Gravity: 1.27  
Decomposition Temperature: UNKNOWN  
Evaporation Rate And Ref: UNKNOWN  
Solubility In Water: 100%  
Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data

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Flash Point: NON-FLAMMABLE  
Lower Explosive Limit: UNKNOWN  
Upper Explosive Limit: UNKNOWN  
Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.  
Special Fire Fighting Proc: WEAR ACID RESISTANT PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.  
Unusual Fire And Expl Hazrds: WHEN BEING CHARGED THIS BATTERY GENERATES HYDROGEN GAS WHICH MAY FORM EXPLOSIVE MIXTURES WITH AIR. ELECTROLYTE REACTS WITH WATER OR WITH METALS TO RELEASE H<sup>2</sup>.

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Reactivity Data

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Stability: YES

Cond To Avoid (Stability): RUPTURE OF BATTERY CASE.  
Materials To Avoid: COMBUSTIBLES, ORGANIC MATERIALS, STRONG  
REDUCING  
AGENTS, METALS, CYANIDES.  
Hazardous Decomp Products: CHARGING, ESPECIALLY OVERCHARGING  
RELEASES  
HYDROGEN, A FLAMMABLE EXPLOSIVE GAS.  
Hazardous Poly Occur: NO  
Conditions To Avoid (Poly): NOT RELEVANT

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Health Hazard Data  
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LD50-LC50 Mixture: ORAL RAT LD50 IS NOT KNOWN  
Route Of Entry - Inhalation: NO  
Route Of Entry - Skin: NO  
Route Of Entry - Ingestion: NO  
Health Haz Acute And Chronic: PRODUCT CONTAINS LEAD AND SULFURIC  
ACID.  
SULFURIC ACID IS A CORROSIVE CAUSING BURNS TO BODY TISSUES.  
LEAD IS TOXIC  
AND SOME LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC.  
CONTACT WITH EITHER IS  
HIGHLY UNLIKELY TO OCCUR UNLESS THE CASE IS BROKEN OR  
SPILLED, THEN ONLY  
CONTACT WITH THE ACID IS LIKELY.  
Carcinogenicity - NTP: YES  
Carcinogenicity - IARC: YES  
Carcinogenicity - OSHA: NO  
Explanation Carcinogenicity: LEAD COMPOUNDS ARE LISTED AS  
CARCINOGENIC IN  
ANIMALS AND POSSILBY IN HUMANS.  
Signs/Symptoms Of Overexp: CONTACT WITH SULFURIC ACID IS THE MOST  
LIKELY  
EXPOSURE, PRODUCING IRRITATION OR BURNS TO THE BODY TISSUE  
CONTACTED.  
Med Cond Aggravated By Exp: NONE  
Emergency/First Aid Proc: FIRST AID IS GIVEN FOR SULFURIC ACID  
CONTACT.  
EYE:FLUSH WWATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP  
& WATER.  
REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.  
INHALED: REMOVE TO  
FRESH AIR. INGESTED:DO NOT INDUCE VOMITING. GIVE 2 LARGE  
GLASSES OF MILK OR  
WATER AND GET IMMEDIATE MEDICAL CARE. GIVE NOTHING BY MOUTH  
IF UNCONSCIOUS.

IF IRRITATION PERSISTS OR IS SEVERE,SEE A DOCTOR.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: IF ACID IS SPILLED, NEUTRALIZE. PLACE  
REMAINDER IN AN ACID RESISTANT CONTAINER FOR RECYCLE OF THE  
LEAD.

Neutralizing Agent: SODIUM BICARBONATE OR LIME

Waste Disposal Method: DISPOSE I/A/W ALL FEDERAL, STATE AND LOCAL  
REGULATIONS. HMIS SUGGESTS THAT DISPOSAL MAY BE DONE BY  
FLUSHING

NEUTRALIZED ACID TO DRAIN AND SENDING REMAINDER TO LEAD  
RECLAIMER. DO NOT  
INCINERATE!!!

Precautions-Handling/Storing: STORE IN COOL, DRY AREA. PROTECT FROM  
PHYSICAL DAMAGE. PROTECT TERMINALS FROM SHORT CIRCUITS.

Other Precautions: READ MANUFACTURERS LITERATURE AND FOLLOW  
INSTRUCTIONS.

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Control Measures

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Respiratory Protection: RESPIRATOR WILL NOT NORMALLY BE  
NECESSARY. USE

NIOSH/MSHA APPROVED RESPIRATOR FOR ACID DUST/MIST IF  
EXPOSURE IS ABOVE THE  
TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO  
RESPIRATOR USE.

Ventilation: NOT NORMALLY REQUIRED. USE LOCAL EXHAUST DURING  
CHARGING

CYCLES TO AVOID AN EXPLOSIVE BUILD UP OF HYDROGEN GAS. \*

Protective Gloves: NONE (RUBBER IF ACID IS LEAKING)

Eye Protection: SAFETY GLASSES/SPLASH GOGGLES FOR LIQUID

Other Protective Equipment: NORMAL WORK CLOTHING. PROTECT WITH  
IMPERVIOUS

APRON AND/OR BOOTS WHEN HANDLING ACID OR IF ACID IS LEAKING.

Work Hygienic Practices: USE GOOD INDUSTRIAL HYGIENE PRACTICE.  
AVOID ALL

CONTACT WITH ACID OR INTERNALS OF THE BATTERY.

Suppl. Safety & Health Data: NON-SPILLABLE BATTERY, PER CTDF.

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Transportation Data

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Trans Data Review Date: 92147

DOT PSN Code: BQR

DOT Symbol: AW

DOT Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE

DOT Class: 8  
DOT ID Number: UN2800  
DOT Pack Group: III  
DOT Label: CORROSIVE  
IMO PSN Code: BWG  
IMO Proper Shipping Name: BATTERIES,WET,NON-SPILLABLE  
IMO Regulations Page Number: 8121  
IMO UN Number: 2800  
IMO UN Class: 8\*  
IMO Subsidiary Risk Label: -  
IATA PSN Code: DAB  
IATA UN ID Number: 2800  
IATA Proper Shipping Name: BATTERIES, WET, NON-SPILLABLE  
IATA UN Class: 8  
IATA Label: CORROSIVE  
AFI PSN Code: DAB  
AFI Prop. Shipping Name: BATTERIES, WET, NON-SPILLABLE  
AFI Class: 8  
AFI ID Number: UN2800  
AFI Pack Group: III  
AFI Basic Pac Ref: 12-8  
N.O.S. Shipping Name: SULFURIC ACID  
Additional Trans Data: NOTE THAT DOT IS NOT REGULATED BUT BATTERY  
MUST BE  
PACKED TO PREVENT TERMINALS FROM SHORTING. AFR 71-4 REQUIRES  
THE SHIPPING  
NAME 'BATTERY,WET,NON-SPILLABLE' WITH 'CORROSIVE' LABELS.

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Disposal Data  
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Label Data  
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Label Required: YES  
Technical Review Date: 22MAY92  
MFR Label Number: NONE  
Label Status: F  
Common Name: LEAD/ACID BATTERY  
Signal Word: DANGER!  
Acute Health Hazard-Severe: X  
Contact Hazard-Severe: X  
Fire Hazard-None: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: FIRST AID: IN CASE OF CONTACT,  
IMMEDIATELY

FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION. WASH CLOTHING BEFORE REUSE. PRODUCT CONTAINS LEAD AND SULFURIC ACID. SULFURIC ACID IS A CORROSIVE CAUSING BURNS TO BODY TISSUES. LEAD IS TOXIC AND SOME LEAD COMPOUNDS ARE LISTED AS CARCINOGENIC. CONTACT WITH EITHER IS HIGHLY UNLIKELY TO OCCUR UNLESS THE CASE IS BROKEN OR SPILLED, THEN ONLY CONTACT WITH THE ACID IS LIKELY. WHEN BEING CHARGED THIS BATTERY GENERATES HYDROGEN GAS WHICH MAY FORM EXPLOSIVE MIXTURES WITH AIR. ELECTROLYTE REACTS WITH WATER OR WITH METALS TO RELEASE H<sup>2</sup>.

Protect Eye: Y  
Protect Skin: Y  
Label Name: INTERSTATE ALL BATTERY CENTER  
Label Street: 1700 DIXON STREET  
Label City: DES MOINES  
Label State: IA  
Label Zip Code: 50316  
Label Country: US  
Label Emergency Number: 1-800-424-9300