

EXIDE CORP -- NP 4-12 -- 6140-01-299-8849

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

Product ID:NP 4-12

MSDS Date:01/02/1991

FSC:6140

NIIN:01-299-8849

MSDS Number: CGMKV

=== Responsible Party ===

Company Name:EXIDE CORP

Address:645 PENN ST

City:READING

State:PA

ZIP:19612-4205

Country:US

Info Phone Num:215-378-0798

Emergency Phone Num:800-424-9300 CHEMTREC

CAGE:20038

=== Contractor Identification ===

Co

Company Name:BATTERY OUTLET OF HAMPTON INC

Address:2815 GEORGE WASHINGTON HWY

Box:City:TABB

State:VA

ZIP:23602

Country:US

Phone:804-867-8280

CAGE:0FTM0

Company Name:ENERSYS INC

Address:8306PATUXENT RANGE RS SUITE 103

Box:City:JESSUP

State:MD

ZIP:20794-8609

Country:US

Phone:301-381-8500 OR 215-378-0757

CAGE:90660

Company Name:EXIDE CORP

Address:645 PENN STREET

Box:14205

City:READING

State:PA

ZIP:19612-4205

Country:US

Phone:610-378-0500/0798

CAGE:20038

Company Name:YUASA-EXIDE INC

Address:2366 BERNV

ILLE ROAD  
Box:14145  
City:READING  
State:PA  
ZIP:19612-4145  
Country:US  
Phone:610-208-1975  
CAGE:77280

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

Ingred Name:SULFURIC ACID (SARA 302/313) (CERCLA)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 10-30%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3/3 STEL; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:LEAD (SARA 313) (CERCLA)  
CAS:7439-92-1  
RTECS #:OF7525000  
Fraction by Wt: 60%  
Other REC Li  
mits: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:ANTIMONY (SARA 313) (CERCLA)  
CAS:7440-36-0  
RTECS #:CC4025000  
Fraction by Wt: 2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.5 MG/M3  
ACGIH TLV:0.5 MG (SB)/M3; 9596  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:ARSENIC (SARA 313) (CERCLA)  
CAS:7440-38-2  
RTECS #:CG0525000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:SEE 1910.1018  
ACGIH TLV:0.01 MG/M3,

A1; 9596  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:CALCIUM  
CAS:7440-70-2  
RTECS #:EV8040000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2000 UG/M3  
ACGIH TLV:2000 UG/M3

Ingred Name:TIN  
CAS:7440-31-5  
RTECS #:XP7320000  
Fraction by Wt: 0.2%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:2 MG/M3; 9596

Ingred Name:POLYPROPYLENE  
CAS:9003-07-0  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED

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===== Hazards Identification =====  
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LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE-CONTACT WITH ACID CAUSES SEVERE BURNS TO ALL TISSUE.INGESTION MAY BE FATAL;CAUSES SEVERE BURNS & ULCERATION. INHALATION CAUSES SEVERE RESPIRATORY IRRITATION.IF LEAD ALLOY DUST IS PRESENT,MAY CAUSE WEIGHT LOSS,LASSITUDE,CONSTIPATION,ANEMIA,VOMITING, PARALYSIS & CNS DEPRESSION  
N.CHRONIC-SKIN ULCERATION & DERMATITIS.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN.  
Effects of Overexposure:CONTACT WITH ACID CAUSES SEVERE BURNS TO ALL TISSUE. INGESTION CAUSES SEVERE BURNS & ULCERATION. INHALATION CAUSES SEVERE RESPIRATORY IRRITATION. IF LEAD ALLOY DUST IS PRESENT, MAY CAUSE WEIGHT LOSS, LASSITUDE, CONSTIPATION, ANEMIA, VOMITING, PARALYSIS & CNS DEPRESSION.  
Medical Cond Aggravated by Exposur

e:PRE-EXISTING SKIN DISORDERS MAY BE  
MORE SUSCEPTIBLE TO THIS MATERIAL.

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First Aid Measures  
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First Aid:GET IMMEDIATE MEDICAL ATTENTION IN ALL  
CASES.EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15  
MINUTES.HOLD EYELIDS OPEN & REMOVE CONTACT LENSES.INHALED:REMOVE TO  
FRESH AIR.INGESTION: DO NOT INDUCE VOMITING.DRINK AS MUCH  
MILK/WATER AS POSSIBLE WITHOUT VOMITING.

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Fire Fighting Measures  
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Flash Point:NON FLAMMABLE

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL. DO NOT SPRAY WATER OVER ACID.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED  
CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:WATER APPLIED TO SULFURIC ACID GENERATES  
HEAT AND CAUSES ACID TO SPATTER. REACTS WITH MOST METALS TO YIELD  
EXPLOSIVE/FLAMMABLE HYDROGEN GAS.

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Accidental Release Measures  
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Spill Release Procedures:AVOID CONTACT WITH SULFURIC ACID ELECTROLYTE  
FROM BATTERY. LIME OR SODA ASH MAY BE USED TO NEUTRALIZE AND/OR  
FLUSH WITH LARGE VOLUME OF WATER.

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

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Handling and Storage  
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Handling and Storage Precautions:STORAGE-STORE BATTERIES IN  
COOL, VENTILATED PLACE AWAY FROM FLAMES, WATER & STRONG BASES.

Other Precautions:AVOID SKIN CONTACT. WHEN CHARGING BATTERIES, AVOID  
PLACING IN AREAS WHERE HYDROGEN GAS CAN BUILD UP. KEEP BATTERIES  
AWAY FROM CHILDREN. DO NOT GET IN EYES. DO NOT BREATHE VAPORS OR  
MISTS.

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE NIOSH-APPROVED RESPIRATOR FOR ACIDS IF 1  
MG/M3 TWA IS EXCEEDED (ACID).

Ventilation:GENERAL (MECHANICAL) VENTILATION. LOCAL EXHAUST IN CHARGING  
STATIONS

Protec

Protective Gloves: RUBBER

Eye Protection: SPLASH-PROOF SAFETY GOGGLES

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

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

PUT IN AS PNI B TO HIGHLIGHT FOR DDRV.

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

HCC: N1

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

Melt/Freeze Pt: M.P/F.P Text: -103F, -75C

Vapor Pres: 10

Vapor Density: > 1

Spec Gr

Density: 1.245 - 1.295

pH: < 1

Solubility in Water: COMPLETE (SULFURIC)

Appearance and Odor: COLORLESS, ODORLESS LIQUID (ELECTROLYTE)

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

Stability Indicator/Materials to Avoid: YES

COMBUSTIBLES, ORGANIC MATERIALS, STRONG REDUCING AGENTS, METALS

Stability Condition to Avoid: HIGH HEAT, OPEN FLAMES AND SPARKS (IF HYDROGEN GAS IS GENERATED)

Hazardous Decomposition Products: MAY FORM SULFUR TRIOXIDE, SULFUR DIOXIDE, SULFURIC ACID FUME

AND OTHER TOXIC GASES SUCH AS HYDROGEN CYANIDE OR SULFIDE.

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

Waste Disposal Methods: NEUTRALIZE WITH SOLUTION OF BAKING SODA IN WATER. DO NOT INCINERATE. DISPOSE WITH AUTOMOTIVE BATTERY SCRAP (CONTAINING LEAD) IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

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