

POLYMER RESEARCH CORP OF AMERICA -- TM11-6140-208-15, ZINC-SILVER STORAGE BATTE --  
6140-00-889-1027

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

Product ID:TM11-6140-208-15, ZINC-SILVER STORAGE BATTE

MSDS Date:04/17/1991

FSC:6140

NIIN:00-889-1027

MSDS Number: BLJXP

=== Responsible Party ===

Company Name:POLYMER RESEARCH CORP OF AMERICA

Address:2186 MILL AVE

City:BROOKLYN

State:NY

ZIP:11234-6308

Country:US

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Info Phone Num:718-444-4300

Emergency Phone Num:718-444-4300

Preparer's Name:DGSC-SSH

CAGE:4N899

=== Contractor Identification ===

Company Name:POLYMER RESEARCH CORP OF AMERICA

Address:2186 MILL AVE

Box:City:BROOKLYN

State:NY

ZIP:11234-6308

Country:US

Phone:718-444-4300 (72-1;CARL HOROWITZ)

CAGE:4N899

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

Ingred Name:SILVER (SARA III)

CAS:7440-22-4

RTECS #:VW3500000

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.

1 MG/M3; 9192  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

Ingred Name:ZINC (SARA III)  
CAS:7440-66-6  
RTECS #:ZG8600000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:10 MG ZNO/M3  
ACGIH TLV:10 MG ZNO/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:POTASSIUM HYDROXIDE (SARA III)  
CAS:1310-58-3  
RTECS #:TT2100000  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:C, 2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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===== Hazards Identification =====  
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Routes of Entry: Inhalation:NO Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:BATTERY SHOULD NOT BE HAZARDOUS UNLESS  
THE ELECTROLYTE IS LEAKING FROM THE CASE. ELECTROLYTE IS CORROSIVE  
TO BODY TISSUES. IT IS TOXIC BY CORROSIVITY. AS A SOLUTION OF A  
SOLID UNLIKELY TO BE INHALED, BUT WILL ALSO ATTACK THE RESPIRATORY  
SYSTEM.

Explanation of Carcinogenicity:THE PRODUCT CONTAINS NO INGREDIENT THAT  
IS LISTED BY IARC,  
NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:ELECTROLYTE CONTACT: EYE:SEVERE IRRITATION,  
BURNING. SKIN:SLIPPERY FEELING,BURNS. INHALED:(UNLIKELY)  
RESPIRATORY IRRITATION,PULMONARY EDEMA. INGESTED:SEVERE IRRITATION  
OF G/I TRACT,BURNS, G/I DISTRESS ,NAUSEA,VOMITING.

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

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

First Aid:EYE:FLUSH W/WATER 15 MIN, HOLD LIDS OPEN. SKIN:WASH WITH SOAP & WATER. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. INHALED:REMOVE TO FRESH AIR. RESTORE BREATHING IF NECESSARY. 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.

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

Flash Point:NON-FLAMMABLE  
Extinguishing Media:PRODUCT IS NON FLAMMABLE. EXTINGUISH FIRE WITH MEDIA APPROPRIATE FOR SOURCE OF FIRE.  
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Release Procedures:COVER SPILL WITH SOLID NEUTRALIZER OR ABSORBER. PUT NEUTRALIZED MATERIAL IN LINED DISPOSAL CONTAINER. FLUSH RESIDUE WITH WATER.  
Neutralizing Agent:BORIC ACID, DILUTE ACETIC ACID.

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

Handling and Storage Precautions:STORE IN A COOL, DRY AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.  
Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID CONTACT WITH EYES AND SKIN. WASH THOROUGHLY AFTER HANDLING. FOR USE AS AN ELECTROLYTE IN BATTERIES ONLY.

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

Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATOR OR RESPIRATOR FOR ALKALINE MIST IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE.  
Ventilation:NORMAL ROOM VENTILATION IS SUFFICIENT. SUPPLEMENTARY

MENT WITH

LOCAL EXHAUST IF PEL/TLV IS EXCEEDED.

Protective Gloves:NATURAL RUBBER

Eye Protection:SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment:EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL- TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

MSDS WAS WRITTEN BY DGSC-SSH BECAUSE POLYMER RESEARCH COULD NOT PROVIDE

MSDS. MSDS COVERS THE ELECTROLYTE.

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

HCC:B1

pH:UNKNON

Solubility in Water:ELECTROLYTE,COMPLETE

Appearance and Odor:BATTERY,7-11/16 INCHES HIGH, 11-9/16 INCHES LONG AND 4-9/64 INCHES WIDE.

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

Stability Indicator/Materials to Avoid:YES

ACIDS

Stability Condition to Avoid:HEAT, OVERCHARGE

Hazardous Decomposition Products:NONE

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= Disposal Considerations =====

Waste Disposal Methods:FOR SMALL QUANTITIES: CAUTIOUSLY ADD TO A LARGE STIRRED EXCESS OF WATER. ADJUST THE PH TO NEUTRAL, SEPARATE OUT SOLIDS AND PACKAGE FOR DISPOSAL. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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