

GNB INCORPORATED -- ELECTROLYTE - SULFURIC ACID -- 6140-00-438-0299

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Product Identification  
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Product ID:ELECTROLYTE - SULFURIC ACID

MSDS Date:01/03/1990

FSC:6140

NIIN:00-438-0299

MSDS Number: BKMYC

=== Responsible Party ===

Company Name:GNB INCORPORATED

Address:1110 HIGHWAY 110

City:MENDOTA HEIGHTS

State:MN

ZIP:55118

Country:US

Info Phone Num:612-681-5000/FAX -5143 (NANCY)

Emergency Pho

ne Num:612-681-5000(75) (NANCY)

CAGE:OMM77

=== Contractor Identification ===

Company Name:GNB BATTERIES INC

Box:43140

City:ST PAUL

State:MN

ZIP:55164

Country:US

Phone:612-681-5000

CAGE:4X342

Company Name:GNB INCORPORATED

Address:1110 HIGHWAY 110

City:MENDOTA HEIGHTS

State:MN

ZIP:55118

Country:US

Phone:612-681-5000

CAGE:OMM77

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Composition/Information on Ingredients  
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Ingred Name:SULFURIC ACID (SARA III)

CAS:7664-93-9

RTECS #:WS5600000

Fraction by Wt: 100%

Other REC L

imits:NONE SPECIFIED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 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:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE & CHRONIC-SULFURIC ACID IS  
HARMFUL BY ALL ROUTES OF ENTRY.EYES:SEVERE BURNS & CORNEA  
DAMAGE.SKIN:IRRITATION,BURNS & ULCERATION.INHALATION:NOT  
GIVEN.INGESTION:BURNS  
IN MOUTH,THROAT,ESOPHAGUS & ST OMACH.  
Effects of Overexposure:STINGING AND BURNING SENSATION TO SKIN AND  
EYES.  
Medical Cond Aggravated by Exposure:EXPOSURE TO SULFURIC ACID MIST MAY  
CAUSE LUNG DAMAGE AND AGGRAVATE PULMONARY CONDITIONS.

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===== First Aid Measures =====  
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First Aid:SEE A DOCTOR.EYES/SKIN:FLUSH WITH WATER FOR 15  
MINUTES.INHALATION OF SULFUR OXIDE:REMOVE TO FRESH AIR.DISCONNECT  
BATTERIES & VENTILATE THE AREA.INGESTION:DRINK LARGE Q  
UANTITIES OF  
MILK/WATER,FOLLOWED BY MILK OF MAGNESIA(NO CARBONATES),BEATEN EGGS  
OR VEGETABLE OIL.SEE DOCTOR IMMEDIATELY.

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===== Fire Fighting Measures =====  
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Flash Point:NOT COMBUSTIBLE  
Extinguishing Media:SUITABLE DRY CHEMICAL. DO NOT USE WATER IF WATER  
CAN GET INTO CONCENTRATED ACID.  
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A  
FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA.  
Unusual Fire/Explosion Hazard  
:REACTS VIOLENTLY WITH WATER AND ORGANIC  
MATERIALS WITH EVOLUTION OF HEAT.

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===== Accidental Release Measures =====  
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Spill Release Procedures:APPLY AN EQUAL AMOUNT OR BAKING SODA, SODA  
ASH, CAUSTIC SODA OR EQUIVALENT OVER SPILLED ELECTROLYTE TO  
NEUTRALIZE IT AND ADD WATER IF NECESSARY TO FORM A SLURRY. SCOOP UP  
SLURRY.  
Neutralizing Agent:LIME OR SODA

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===== Handling and Storage =====  
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Handling and Storage Precautions:

STORAGE-KEEP AWAY FROM WATER,ORGANIC MATERIALS,COMBUSTIBLES.

Other Precautions:AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID BREATHING VAPOR. WASH THOROUGHLY AFTER HANDLING.

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

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

Ventilation:LOCAL EXHAUST AT CHARGING STATIONS

Protective Gloves:RUBBER

Eye Protection:SPLASH-PROOF SAFETY GOGGLES/FACE SHIELD

Other Protective Equipment

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

Work Hygienic Practices:WASH HANDS BEFORE EATING OR DRINKING.

Supplemental Safety and Health

FOR INFORMATION ABOUT BATTERY, SEE P/N A SAME NSN.

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

HCC:C1

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

Melt/Freeze Pt:M.P/F.P Text:-101F,-74C

Vapor Pres:0.4 - 21.8

Vapor Density:3.40

Spec Gravity:1.060 - 1.840

Evaporation Rate & Reference:<

1 (N-BUTYL ACETATE=1)

Solubility in Water:100 %

Appearance and Odor:CLEAR LIQUID WITH SHARP, PENETRATING PUNGENT ODOR

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

Stability Indicator/Materials to Avoid:YES

WATER, ORGANIC MATERIALS, COMBUSTIBLES, AND STRONG REDUCING AGENTS

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES

Hazardous Decomposition Products:SULFUR TRIOXIDE, CARBON MONOXIDE, ACID MIST AND SULFUR DIOXIDE

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===== Disposal Considerations =

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Waste Disposal Methods:NEUTRALIZED LIQUID MAY BE DISPOSED IN INDUSTRIAL SEWER IF LOCAL REGULATIONS PERMIT. ANY SOLID MATERIAL SHOULD BE DISPOSED IN ACCORDANCE WITH LOCAL REGULATIONS.

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