

SPECTRUM CHEMICAL MANUFACTURING CORP. -- NITRIC ACID (AQUA FORTIS) --  
6810-00-237-2954

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

Product ID:NITRIC ACID (AQUA FORTIS)

MSDS Date:12/04/1989

FSC:6810

NIIN:00-237-2954

MSDS Number: BDLYX

=== Responsible Party ===

Company Name:SPECTRUM CHEMICAL MANUFACTURING CORP.

Address:14422 SOUTH SAN PEDRO STREET

City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Info Phone Nu

m:213-516-8000

Emergency Phone Num:800-772-8786

CAGE:63415

=== Contractor Identification ===

Company Name:CHEMICAL COMMODITIES AGENCY, INC.

Address:27447 PACIFIC STREET

Box:City:HIGHLAND

State:CA

ZIP:92346-2640

Country:US

Phone:909-864-2310

CAGE:60777

Company Name:SPECTRUM LABORATORY PRODUCTS INC

Address:14422 S SAN PEDRO ST

Box:City:GARDENA

State:CA

ZIP:90248-2027

Country:US

Phone:310-516-8000/FAX: 310-516-9843

CAGE:63415

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

In

Ingred Name:NITRIC ACID (SARA III)  
CAS:7697-37-2  
RTECS #:QU5775000  
Fraction by Wt: 70.0%  
OSHA PEL:2 PPM/4 STEL  
ACGIH TLV:2 PPM/4 STEL; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 30.0%

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

LD50 LC50 Mixture:LD 50 ORAL RAT IS  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: CORROSIVE TO ALL BODY TISSUES.

SEVERE IRRITATION AND BURNS TO EYES, SKIN, RESPIRATORY AND GASTROINTESTINAL TRACTS. CHRONIC: DERMATITIS, MOUTH ULCERATION, EROSION OF TEETH, BRONCHIAL PNEUMONIA.

Effects of Overexposure:EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES.  
SKIN: WASH WITH SOAP AND WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NEEDED. INGESTION: GIVE LARGE AMOUNTS OF WATER OR MILK. DO NOT INDUCE VOMITING. FOR ALL EXPOSURES GET IMMEDIATE MEDICAL ATTENTION.  
Medical Condition Aggravated by Exposure:INDIVIDUALS WITH A HISTORY OF EYE, SKIN AND RESPIRATORY DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:EYES:FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.IF IRRITATION PERSISTS,SEE DOCTOR. SKIN:WASH WITH MILD SOAP AND WATER WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. INHALATION:REMOVE

VICTIM TO FRESH AIR.GIVE OXYGEN/CPR IF NEEDED.SEE DOCTOR.  
INGESTION:DO NOT INDUCE VOMIT.SEE DOCTOR IMMEDIATELY.

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

Flash Point:NONE

Extinguishing Media:WATER,DRY CHEMICAL OR SODA ASH.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SCBA. FIGHT FIRE AS FAR A DISTANCE AS POSSIBLE. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:NITRIC ACID MAY YIELD OXYGEN WHEN HEATED, WHICH WILL INCREASE THE RATE OF BURNING OF COMBUSTIBLE MATERIAL & MAY RESULT IN IGNITION, VIOLENT COMBUSTION OR EXPLOSION

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

Spill Release Procedures:REMOVE PERSONNEL. ELIMINATE IGNITION SOURCES. VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND EQUIPMENT. NEUTRALIZE VERY CAUTIOUSLY. ABSORB IN FLY ASH OR CEMENT POWDER AND PLACE IN APPROPRIATE DISPOSAL CONTAINER AND COVER.

Neutralizing Agent:SLAKED LIME, SODIUM BICARBONATE OR CRUSHED LIMESTONE.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE, HEAT, IGNITION SOURCES AND INCOMPATIBLE MATERIALS. KEEP CONTAINERS CLOSED.

Other Precautions:AVOID EXPOSING PRODUCT TO DIRECT SUNLIGHT. AVOID EYE AND SKIN CONTACT. DO NOT BREATHE VAPORS.

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

Respiratory Protection:NIOSH APPROVED RESPIRATOR WITH ACID GAS CARTRIDGE OR SCBA AS APPROPRIATE FOR EXPOSURE OF CONCERN.

Ventilation:LOCAL EXHAUST VENTILATION TO KEEP EXPOSURE LEVELS BELOW PEL.

Protective Gloves:PVC GLOVES.

Eye Protection:SPLASH-PROOF GOGGLES AND FACE SHIELD.

Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT. EYE BATH AND SAFETY SHOWER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE

E

ATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NONE.

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

HCC:C1

Boiling Pt:=82.8C, 181.F

Melt/Freeze Pt:=-42.2C, -44.F

Vapor Pres:48 @ 68F

Vapor Density:2.2

Spec Gravity:1.5

pH:ACIDIC

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS FUMING LIQUID WITH AN ACRID,SUFFOCATING  
ODOR.

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

Stability Indicator/Materials to Av

oid:YES

COMBUSTIBLE MATERIALS, METALLIC POWDERS, HYDROGEN SULFIDE, CARBIDES,  
ALCOHOLS, REACTS WITH WATER TO PRODUCE HEAT.

Stability Condition to Avoid:EXTREME HEAT

Hazardous Decomposition Products:OXIDES OF NITROGEN.

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

Waste Disposal Methods:CONTACT YOUR LOCAL ENVIRONMENTAL OFFICER.

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL  
REGULATIONS. EPA HAZARDOUS WASTE NUMBER D002.

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