

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

gred 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 Chro  
nic: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 LEAT 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: GIV E LARGE AMOUNTS OF WATER OR MILK. DO  
NOTIND  
UCE VOMITING. FOR ALL EXPOSURES GET IMMEDIATE MEDICAL  
ATTENTION.  
Medical Cond 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 OX

YGEN WHEN HEATED,

WHICH WILL INCREASE THE RATE OF BURNING OF COMBUSTIBLE MATERIAL &  
MAY RESULT IN IGNITION, VIOLENT COMBUSTION OR EXPLSN

===== 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 CO NTAINER AND COVER.

Neutralizing Agent:SLAKED LI

ME, 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 =====

Respira

tory 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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