

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

Num: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 =====

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 C

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 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:REMO

VE

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 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
APPROIATE DISPOSAL CO NTAINER 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 =====

Resp

iratory 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

EATING. LAUNDRER 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

Avoid: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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