

SPECTRUM CHEMICAL MFG CORP -- AQUAFORTIS, HYDROGEN NITRATE -- 6810-00-222-9655

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

Product ID: AQUAFORTIS, HYDROGEN NITRATE

MSDS Date: 11/01/1983

FSC: 6810

NIIN: 00-222-9655

MSDS Number: BDKCT

=== Responsible Party ===

Company Name: SPECTRUM CHEMICAL MFG CORP

Address: 14422 S. SAN PEDRO STREET

City: GARDENA

State: CA

ZIP: 90248-9985

Country: US

Info Phone Num: 310-516-8000

Emergency

Phone Num: 310-516-8000

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 =====

Ingredient Name: NITRIC ACID

(SARA III) *
CAS:7697-37-2
RTECS #:QU5775000
Fraction by Wt: 63.01%
OSHA PEL:2 PPM/4 STEL *
ACGIH TLV:2 PPM/4 STEL; 9192 *
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:LDLO (MAN) = 110 MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:DEGREE OF INJURY DEPENDS UPON
CONCENTRATION AND DURATION OF CONTACT. NITRIC
ACID IS CORROSIVE TO
ALL BODY TISSUES. VAPORS AND LIQUID CAUSE SEVERE BURNS. CHRONIC:MAY
CAUSE ULCERS OF CONTACTED TISSUES.
Explanation of Carcinogenicity:PRODUCT IS NOT LISTED AS A CARCINOGEN BY
IARC, NTP, OR OSHA.
Effects of Overexposure:EYE: SEVERLY CORROSIVE, SEVERE PAIN, BURNS.
SKIN: DEEP, SLOW HEALING BURNS. MAY HARDEN SKIN IN LOW CONC.
INHALED: SEVERE RESPIRATORY IRRITATION, COUGHING, CHOKING,
PULMONARY EDEMA. INGESTED: BURNS AND CORROSION OF MOUTH, THROAT,
A
ND ESOPHAGUS. IMMEDIATE PAIN, NAUSEA, VOMITING AND DIARRHEA.
Medical Cond Aggravated by Exposure:PEOPLE WITH IMPARED PULMONARY
FUNCTION, OR PRE-EXISTING EYE OR SKIN DISORDERS.

===== 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. DILUTE
ACID BY GIVING 2 LARGE
GLASSES OF MILK OR WATER AND GET IMMEDIATE MEDICAL CARE. NOTHING BY
MOUTH IF UNCONSCIOUS. IF ANY IRRITATION PERSISTS OR IS SEVERE,SEE A
DOCTOR.

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

Flash Point:NON-FLAMMABLE
Extinguishing Media:WATER, DRY CHEMICALS, SODA ASH. LARGE FIRE: FLOOD
AREA WITH WATER FROM DISTANCE.
Fire Fighting Procedures:MOVE CONTAINER FROM FIRE AREA IF W/O RISK. USE
COOLING WATER TO FIRE EXPOSED CONTAINERS.

MASSIVE FIRE: USE

UNMANNED HOSE HOLDER . IF IMPOSSIBLE, WITHDRAW.

Unusual Fire/Explosion Hazard:USE FLOODING AMT OF WATER AS FOG. AVOID

BREATHING CORROSIVE VAPORS.EVACUATE DOWNWIND AREA IF CONTAINERS ARE LEAKING.

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

Spill Release Procedures:SOIL: DIG HOLDING PIT & DIKE SURFACE FLOW.

ABSORB WITH FLY ASH OR CEMENT. AIR: KNOCK DOWN VAPORS WITH WATER SPRAY. (NEUTRALIZE WATER BEFORE RELEASE.) WATER: NEUTALIZE TO PH

7.

OCCUPATIONAL: ISOLATE SP ILL, REMOVE INCOMPATIBLES, USE ABOVE TECHNIQUE

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

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

Handling and Storage Precautions:CONSULT NFPA PUBLICATION 43A 'STORAGE OF LIQUID & SOLID OXIDIZING MATERIALS' FOR STORAGE REQUIREMENTS.

Other Precautions:MAY IGNITE COMBUSTIBLE MATERIALS. REACTS VIOLENTLY W/ WATER AND FUELS. FLAMM., POISON GASES MAY ACCUMULATE IN TANKS &

HOPPER CARS. RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

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

Respiratory Protection:SEE 29CFR1910 PART Z & NIOSH RESPIRATOR

DOCUMENTS. SELECT RESPIRATOR BASED ON CONTAMINATION LEVEL IN THE WORK PLACE AND WORKING LIMITS OF THE RESPIRATOR.

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION TO MEET PUBLISHED EXPOSURE LIMITS.

Protective Gloves:APPROPRIATE TO PREVENT CONTACT

Eye Protection:SPLASH PROOF GOGGLES PLUS FACE SHIELD

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER, PLUS APPROPRIATE IMPERVIOUS CLOTHING AND EQUIPMENT TO PREVENT SKIN CONTACT.

Work Hygienic Practices:USE STRICT CHEMICAL HYGIENE PRACTICE. AVOID ALL CONTACT IF POSSIBLE. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

NONE

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

HCC:C1

Boiling Pt:B.P. Text:181F,83C

Melt/Freeze Pt:M.P/F.P Text:-44F,-42C

Vapor P

res:47.9 MM
Vapor Density:3.2
Spec Gravity:1.5027
Solubility in Water:COMPLETE
Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

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

Stability Indicator/Materials to Avoid:YES
BASES,ALCOHOLS,CHARCOAL,ORGANIC & COMBUSTIBLE MATERIAL,METALLIC
POWDERS,CARBIDES,H₂S,TURPENTINE. (MFR GAVE 5 PAGES!)
Stability Condition to Avoid:REACTS EXOTHERMALLY WITH WATER.
Hazardous Decomposition Products:TOXIC OXIDES OF NITROGEN

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

Waste Disposal Methods:DISPOSAL MUST BE I/A/W STANDARDS APPLICABLE TO
GENERATORS OF HAZARDOUS WASTE D002 IN 40CFR262. CERCLA REPORTABLE
QUANTITY = 100 POUNDS.

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