UNOCAL CHEMICALS DIV, UNION OIL CO OF CALIFORNIA -- NITRIC ACID - 38 BE, 42 BE, TOWER GRADE -- 6810-00-237-2918

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

Product ID:NITRIC ACID - 38 BE, 42 BE, TOWER GRADE

MSDS Date:02/05/1990

FSC:6810

NIIN:00-237-2918

MSDS Number: BVGHV === Responsible Party ===

Company Name: UNOCAL CHEMICALS DIV, UNION OIL CO OF CALIFORNIA

Address:1201 WEST 5TH ST

City:LOS ANGELES

State:CA ZIP:90017 Country:US

Info Phone Num:213-977-7197

Emergency Ph

one Num:202-483-7616/800-424-9300(CHEMTREC)

CAGE:DO720

=== Contractor Identification === Company Name:76 PRODUCTS CO

Address:1201 W 5TH ST Box:City:LOS ANGELES

State:CA ZIP:90017 Country:US

Phone:213-977-7589

CAGE:23034

Company Name: HOLCHEM INC Address: 4672 E DRUMMOND ST

Box:City:FRESNO

State:CA ZIP:93725 Country:US

Phone:209-268-4571

CAGE:0J450

Company Name: UNOCAL CHEMICALS DIV/UNION OIL CO OF CAL

Address:1345 N. MEACHAM

City:SCHAUMBURG

State:IL ZIP:60196

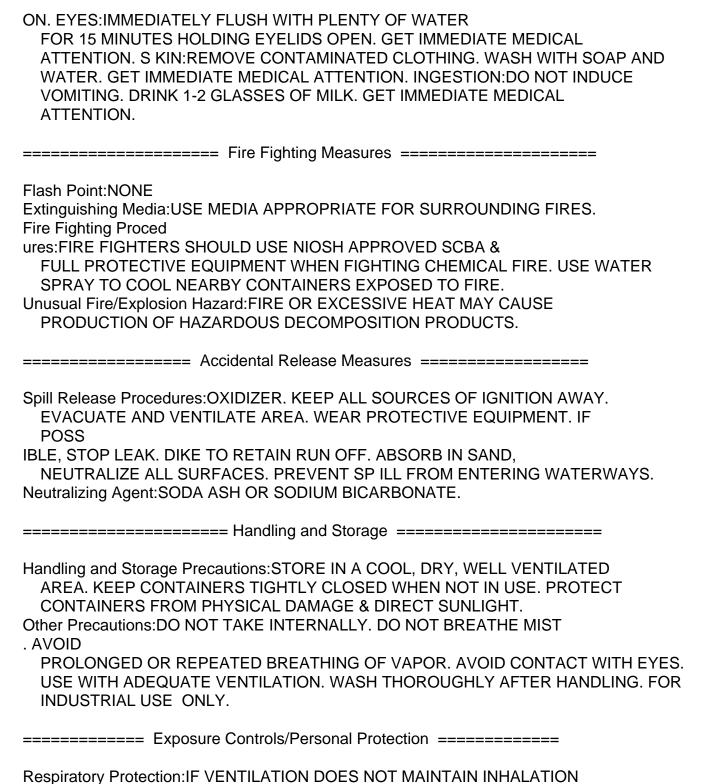
Phone:312-490-2539

CAGE:DO720

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==== Composition/Information on Ingredients ========
Ingred Name:NITRIC ACID (SARA III) CAS:7697-37-2 RTECS #:QU5775000 Fraction by Wt: 56-67% Other REC Limits:NONE SPECIFIED 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: 33-44% Other REC Limits:NONE SPECIFIED  ===================================
Routes of Entry: Inhalation:YES Skin:YES Ing estion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: CORROSIVE! INHALATION:SEVERE IRRITATION OF THE RESPIRATORY TRACT. INGESTION:HARMFUL OR FATAL, CAUSE SEVERE BURNS TO MOUTH & G.I. TRACT. EYE:CAN CAUSE SEVERE BURNS AND DEEP ULCERS. CHRONIC-DENTAL EROSION, CHRONIC BROCHITIS, LUNG DAMAGE. Explanation of Carcinogenicity:DATA PER MSDS Effects of Overexposure:SEVERE IRRITATION AND B URNS OF THE NOSE,
THROAT, UPPER RESPIRATORY TRACT, EYES, SKIN AND MUCOUS MEMBRANES. STINGING, TEARIING, REDNESS, SWELLING, PAIN.  Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.
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First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTI



EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED FULL FACEPIECE CHEMICAL CARTRIDGE RESPIRATOR OR A SUPPLIED AIR FULL FACEPIECE

RESPIRATOR OR AIRLINED HOOD.

Ventilation:LOCAL

EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURES BELOW THE TLV.

Protective Gloves: NEOPRENE OR RUBBER GLOVES

Eye Protection: CHEMICAL SAFETY GOGGLES WITH FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

IMPERVIOUS BOOTS, APRON, OR COVERALLS AS REQUIRED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health AVOID PROLONGED OR REPEATED EXPOSUR E. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

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

HCC:C1
Boiling Pt:B.P. Text:246F,119C
Melt/Freeze Pt:M.P/F.P Text:-6F,-21C
Vapor Density:1.5-1.7
Spec Gravity:1.355-1.408
pH: