

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

==== Hazards Identification =====

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! INHALATION:SEVERE IRRITATION OF THE RESPIRATORY TRACT. INGESTION:HARMFUL OR FATAL, CAUSE SEVERE BURNS TO MOUTH & G.I. TRACT. EYE:CAN CAUSE SEVERE BURNS & IRREVERSIBLE DAMAGE. SKIN:CA N 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 BURNS 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.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTI

ON. EYES:IMMEDIATELY FLUSH WITH PLENTY OF WATER
FOR 15 MINUTES HOLDING EYELIDS OPEN. GET IMMEDIATE MEDICAL
ATTENTION. SKIN:REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND
WATER. GET IMMEDIATE MEDICAL ATTENTION. INGESTION:DO NOT INDUCE
VOMITING. DRINK 1-2 GLASSES OF MILK. GET IMMEDIATE MEDICAL
ATTENTION.

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

Flash Point:NONE

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRES.

Fire Fighting Procedures:

FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:OXIDIZER. KEEP ALL SOURCES OF IGNITION AWAY.
EVACUATE AND VENTILATE AREA. WEAR PROTECTIVE EQUIPMENT. IF
POSS

IBLE, STOP LEAK. DIKE TO RETAIN RUN OFF. ABSORB IN SAND,
NEUTRALIZE ALL SURFACES. PREVENT SPILL FROM ENTERING WATERWAYS.

Neutralizing Agent:SODA ASH OR SODIUM BICARBONATE.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED
AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT
CONTAINERS FROM PHYSICAL DAMAGE & DIRECT SUNLIGHT.

Other Precautions:DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST
. AVOID

PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES.
USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR
INDUSTRIAL USE ONLY.

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

Respiratory Protection:IF VENTILATION DOES NOT MAINTAIN INHALATION
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: