

OCCUPATIONAL HEALTH SERVICES, INC -- NITRIC ACID -- 6810-00-222-9655

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

Product ID:NITRIC ACID

MSDS Date:07/14/1993

FSC:6810

NIIN:00-222-9655

MSDS Number: BXQDC

=== Responsible Party ===

Company Name:OCCUPATIONAL HEALTH SERVICES, INC

Address:11 WEST 42ND, 12TH FLOOR

City:NEW YORK

State:NY

ZIP:10036

Country:US

Info Phone Num:212-789-3535/800-445-MSDS

Emergency Phone

Num:212-789-3535/615-366-2000

CAGE:DO501

=== Contractor Identification ===

Company Name:OCCUPATIONAL HEA & SAFETY,FORD MOTOR CO

Address:900 PARKLANE TOWERS WEST

City:DEARBORNE

State:MI

ZIP:48126

Phone:800-959-3673

CAGE:DO501

Company Name:OCCUPATIONAL HEALTH SERVICES INC

Address:11 W 42ND ST 12 THE FLOOR

City:NEW YORK

State:NY

ZIP:10036

Country:US

Phone:212-789-3535

CAGE:0G9K0

===== Composition/Information on Ingredients =====

Ingred Name:NITRIC ACID (SARA 302/313) (CERCLA)

C

AS:7697-37-2
RTECS #:QU5775000
Fraction by Wt: 70%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 PPM
ACGIH TLV:2 PPM/4 STEL; 9495
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 30%
Other REC Limits:NONE RECOMMENDED

===== 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:CORR INHAL
/SKIN/EYE/INGEST.HIGHLY

TOXIC BY INHAL.INHAL:100PPM IMMED DANGEROUS TO LIFE/HEALTH.SEV RESP
IRRIT.PULM EDEMA,CYANOSIS,RAPID PULSE,TEETH EROSION.SKIN:SEV
PAIN,BUNRS,EYELLOW STAINS,DERM.EYE:PAI
N,LACRIMATIN,PHOTOPHOBIA,BUNRS,BLINDNESS,CONJ.INGEST:CORR OF MUC
MEMB OF MOUTH/THROAT/EXOPHAGUS,PAIN,UNABLE TO (SUPPLEM)

Explanation of Carcinogenicity:PER MSDS:CARCINOGEN:NONE.

Effects of Overexposure:INHAL:COUGH,CHOKE,YELLOWISH BURNS OF MUC
MEMB.DIZZ,HEAD,NAU,WEAK,TIGHTNESS IN CHEST
,DYSYPNEA,FROTHY

SPUTUM.SKIN:DERM,BURNS,YELLOW STAINS.EYE:PAIN,EYE DESTROYED,YELLOW
EYE COLOR,CONJ,CORNEA VASCULARIZED /OPAQUE.INGEST:SHOCK,WEAK,RAPID
PULSE,SHALLOW RESP,CLAMMY SKIN,CIRCULARTORY
COLLAPSE,ESOPHAGEAL/GASTRIC/PYLORIC STRICTUR

Medical Cond Aggravated by Exposure:PERSONS WITH IMPAIRED PULMONARY
FUNCTION, PRE-EXISTING EYE & SKIN DISORDERS.

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

First Aid:INHAL:REMOVE TO FRESH AIR IMMED.STOP BREATH GIV

E ART

RESP.GIVE OXY IF AVAILABLE BY QUAL PERSON.SKIN:REMOE CONTAMIN CLOTH/SHOE IMMED.WASH W/SOAP/MILD DETERGENT/LOTS OF WATER 15-20MINS.CHEM BURN COVER W /STERILE DRY DRESS.BANDAGE SECURELY.EYE:WASH IMMED W/LOTS OF WATER OPENING EYELIDS 15-20MINS.CONT W/NORMAL SALINE TIL PH NORMAL(3-60MINS).COVER W/STERILE BANDAGES.INGEST:NO GASTRIC LAVAGE/EMESIS.(SUP)

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

Extinguishing Media:WATER,DRY CHEMICAL OR SODA ASH

. LG FIRES:FLOOS AREA

W/WATER FROM A DISTANCE.

Fire Fighting Procedures:MOVE CNTNR FRM FIRE W/O RISK.APPLY COOL WATER TO CNTNR SIDES EXPO TO FLAME TIL WELL AFAT FIRE IS OUT.STAY AWAY FRM TKS ENDS.MASSIVE FIRE IN CARGO AREA USE(SUPP

Unusual Fire/Explosion Hazard:MAY IGN OTHER COMBUST

MATLS(WOOD,PAPER,OIL,ETC).RXS VIOLENTLY W/H2O/FUEL.FLAMM,POISONOUS GAS MAY ACCUMU IN TKS/HOPPER CARS.RUNOFF TO SEWER CREATE FIRE/EXPLO HAZ

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===== Accidental Release Measures ===

Spill Release Procedures:DIG HOLDING AREA(PIT/POND)TO CONTAIN.DIKE SURFACE FLOW(SOIL BARRIER/SANDBAGS)ABSORB LIQ MASS W/FLY ASH/CEMENT POWDER.NEUTRALIZE.APPLY WATERSPRAY TO RED VAP.DIKE RUNOFF.DO NOT TOUCH SPILL.STOP LEAK W/O RISK.ISOLATE/DENY ENTRY.VENTI CLSD SPACE BEF ENTR

Neutralizing Agent:SLAKED IME, SODIUM BICARBONATE OR CRUSHED LIMESTONE.

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

Handling and Storage Precautions:OBSERVE ALL FED /STATE/LOC REGS WHEN

STORING MATL.PROT AGAINST PHYS DMG.SEPARTE FRM INCOMPA MATLS.PROVIDE GOOD VENTI.AVOID DIRECT SUNLIGHT.SEE NFPA 43A

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:SPEC RESP SELECTED MUST BE BASED ON CONTAMIN LEVELS IN WORKPLACE,MUST NOT EXCEED WORKING LIMITS OF RESP,JOINTLY APPROVED BY NIOSH/MSHA.ONLY NON-OXIDIZABLE SORBENTS ALLOWED(NOT CHARCOAL).

Ventilation:PRO

CESS ENCLOSURE RECOMMENDED TO MEET PUBLISHED EXPO
LIMITS.

Protective Gloves: APPROPRIATE PROT GLOVES. (PVC, NITRILE)

Eye Protection: SPLASH-PROOF/DUST-RESIST SAF GOGG, FACSLD

Other Protective Equipment: APPROP PROT IMPERV CLOTH/EQPMT TO PREVENT
SKIN CONTACT. EYEWASH FOUNTIAN, QUICK DRENCH SHOWER W/IN IMMED
WORKAREA.

Work Hygienic Practices: WASH HANDS AFTER HANDLING.

Supplemental Safety and Health

FIREFIGHT: UNMANNED HOSE HOLDER/MONITOR NOZZ. IF IMPOSSIBLE W/D LET FIRE
BURN. USE FLOOD AMTS O

F H2O AS FOG. AVOID BREATH VAP. KEEP

UPWIND. CONSIDER EVACU DOWNWIND IF LEAKING. HEAL

HAZ: SWALLOW/TALK, THIRST, DIARR, VOMITUS W/BLOOD/MUCOSA, RENAL

FAILURE, DEATH, CONV. 1ST AID: DILUTE W/100X. IN ALL CASES GET MED ATTN
IMMED. NO ANTIDOTE.

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

HCC: C1

NRC/State Lic Num: NOT RELEVANT

Boiling Pt: =82.8C, 181.F

Melt/Freeze Pt: =-42.2C, -44.F

Vapor Pres: 47.9 @20C

Vapor Density: 3.2

Spec Gravity: 1.5027 @25C

pH: ACID

Solubility in Water

: VERY SOLUBLE

Appearance and Odor: COLORLESS TO PALE YELLOW LIQUID WITH A SUFFOCATING
ODOR.

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

Stability Indicator/Materials to Avoid: YES

COMBUST MATLS, METALLIC POWDERS, HYDROGEN SULFIDE, CARBIDES, ALCOHOLS, CORR
TO METALS, TURPENTINE, ORG ACIDS, READILY OXID MATLS

Stability Condition to Avoid: RXS W/WATER EXOTHERMICALLY.

Hazardous Decomposition Products: THERMAL DECOMPOSITION PRODUCTS MAY
INCLUDE TOXIC OXIDES OF NITROGEN.

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

Waste Disposal Methods:SARA TPQ&RQ/CERCLA RQ:1000LBS.OSHA
TQ:500LBS.SUBJ TO REPORTING.OBSERVE ALL FED/STATE/LOC REGS WHEN
DISPOSING THIS SUBSTANCE.DISPOSAL MUST BE IAW STD APPLICABLE TO
GENERATORS OF HAZ WASTE.EPA HAZ WASTE :D002.

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