

DU PONT E I DE NEMOURS & CO INC -- WEAK NITRIC ACID, GRADE 40 -- 6810-00-222-9655
===== Product Identification =====

Product ID:WEAK NITRIC ACID, GRADE 40
MSDS Date:09/16/1993
FSC:6810
NIIN:00-222-9655
MSDS Number: BDKCR
=== Responsible Party ===
Company Name:DU PONT E I DE NEMOURS & CO INC
Address:1007 MARKET STREET
Box:1635
City:WILMINGTON
State:DE
ZIP:19898
Country:US
Info Phone Num:800-441-94
42
Emergency Phone Num:800-441-3637
Chemtrec Ind/Phone:(800)424-9300
CAGE:18873
=== Contractor Identification ===
Company Name:E.I. DUPONT DE NEMOURS & CO
Address:1007 MARKET STREET
Box:City:WILMINGTON
State:DE
ZIP:19898
Country:US
Phone:800-441-7515;800-441-9442
CAGE:18873

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

Ingred Name:NITRIC ACID (SARA 302/313) (CERCLA)
CAS:7697-37-2
RTECS #:QU5775000
Fraction by Wt: 61.4%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 PPM
ACG

IH TLV:2 PPM/4 STEL; 9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 33-48%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50:50-500MG/KG(SPECIES UNSPECIFI)

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:LIQ/VAP SEVERE EYE/SKIN/NOSE/THROAT
BURNS.EYE DMG PERM,BLINDNESS.INHAL:HARMFUL,DELAY LUNG
INJURY.SKI

N:BURNS,ULCERATION.EYE:IRRIT W/DISCOMFT,TEAR,BLUR
VISION,CORR W/CORNEAL/CONJUNCT ULCERATION.INHAL:IR RIT UPPER RESP
PASSAGES;TEMP LUNG IRRITW/COUGH,DISCOMFT,DIFF BREATH,SHORTNESS OF
BREATH.INGEST:BURNING PAIN IN (SUPPLE)

Explanation of Carcinogenicity:PER MSDS:NONE OF COMPO PRESENT IN MATL
AT CONCEN EQUAL TO/GREATER THAN 0.1% LISTED BY IARC/NTP/OSHA/ACGIH
AS CARCINOGEN.

Effects of Overexposure:BURNS EYE/SKIN/NOSE/THROAT,PERM EYE
DMG,BLINDNESS,DEALYED LUNG INJURY,SKIN BURN

S/ULCERATION.EYE IRRIT
W/DISCOMFT,TEARING,BLURRING VISION,EYE CORRO W/CORNEAL OR
CONJUNCTIVAL ULCERATION.IRRIT UPPER RESP PASSAGED,TEMP LUNG IRRIT
W/COUGH,DISCOMFT,DIFFICULTY BREATING,SHORT BREATH,BURNING PAIN IN
MOUTH,TEETH EROSION,JAW NECR

Medical Cond Aggravated by Exposure:INDIVIDUALS W/PRE-EXISTING DISEASES
OF LUNGS MAY HAVE INCREASED SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE
EXPOSURES.

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

First Aid:I

NHAL:IMMED REMOVE TO FRESH AIR.NOT BREATH GIVE ART
RESP;DIFFI BREATH GIVE OXY.CALL PHYSICIAN.SKIN:IMMED FLUSH W/PLENTY
OF WATER FOR @LEAST 15MINS WHILE REMOVING CONTAMIN CLOTH/SHOES.CALL
PHYSICIAN.EY E:IMMED FLUSH W/PLENTY OF WATER FOR 15MINS.CALL
PHYSICIAN.INGEST:DO NOT INDUCE VOMIT.GIVE LG QUANT OF WATER.CALL
PHYSICIAN IMMED.NEVER GIVE ANYTHING BY MOUTH IF
UNCONSC.NOTE:VICTIME TRANSP TO (SUPPL)

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

Flas

Flash Point: WILL NOT BURN

Autoignition Temp: Autoignition Temp Text: NP

Lower Limits: NP

Upper Limits: NP

Extinguishing Media: WATER, DRY CHEMICAL, SODA ASH. USE WATER SPRAY TO COOL CONTNR & REDUCE VAPORS.

Fire Fighting Procedures: EVACUATE AREA; STAY UPWIND. WEAR FULL ACID PROTECTIVE CLOTH W/SCBA WHERE POSSIBILITY OF CONTACT W/ACID/FUMES EXISTS. RUNOFF FROM FIRE CONTROL MAY CAUSE POLLUTION.

Unusual Fire/Explosion Hazard: SPILLAGE MAY CAUSE FIRE/LIBERATE DANGEROUS GAS. INCREASE FLAMMABILITY/CAN IGNITE MANY ORGANIC

MATERIALS (WOOD, SOLVENTS, ETC) & CAN RELEASE TOXIC OXIDES OF NITROGEN.

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

Spill Release Procedures: REVIEW MSDS. USE APPROPRIATE PPE. NEUTRALIZE W/LIME OR SODA ASH. EVACUATE AREA; KEEP UPWIND TIL GAS DISPERSED. WEAR SCBA IF NECESSARY. DIKE LG SPILLS. FLUSH W/PLENTY OF WATER. NEUTRAL WASHING W/LIME OR SODA ASH. DON'T FLUSH TO SEWER BEFORE NEUTRAL. COMPLY W/ALL REGS.

Neutralizing Agent: LIME OR SODA ASH.

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

Handling and Storage Precautions: DON'T GET IN EYE/SKIN/CLOTH. DON'T BREATHE VAPOR. KEEP CONTNR CLOSED. KEEP AWAY FROM HEAT/SPARKS/FLAME. LOOSEN CLOSURES CAREFULLY. NEVER USE PRESSURE TO EMPTY.

Other Precautions: CONTAINERS MUST NOT BE WASHED OUT/USED FOR OTHER PURPOSES. DON'T STORE NEAR ORGANIC/OTHER READILY OXIDIZABLE MATERIALS, METAL POWDERS, CYANIDES, SULFIDES, CARBIDES. NITROGEN OXIDES MAY EXIST IN SPACE ABOVE NITRIC ACID SOLUTIONS.

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

Respiratory Protection: OSHA PERMISSIBLE RESPIRATORY PROTECTION. DO NOT USE CHEMICAL CARTRIDGE RESPIRATORY W/OXIDIZABLE SORBANTS.

Ventilation: SUFFICIENT VENTILATION SHOULD BE PROVIDED TO KEEP VAPOR CONCENTRATIONS BELOW EXPOSURE LIMITS.

Protective Gloves: NEOPRENE, PVC GAUNTLET GLOVES.

Eye Protection: CHEMICAL SPLASH GOGGLES, FULL LENGTH FACE SHIELD

Other Protective Equipment: BOOTS/APRON; HARD HAT W/BRIM; LONG SLEEVE WOOL/POLYESTER/ACRYLIC CLOTH, ACID SUIT W/HOOD,

Work

Hygienic Practices:WASH CONTAMIN CLOTH BEF REUSE.WASH THOROUGHLY
AFT HDN LG.

Supplemental Safety and Health

HEALTH: MOUTH W/SEVERE CORR OF MUCOSAL SURFACES.EROSION OF TEETH
FOLLOWED BY JAW NECROSIS.NITROGEN OXIDE:UPPER RESP IRRIT,PULM
EDEMA. 1ST AID:MED FACILITY APPLY COMPRESSES OF ICE WATER TO
AFFECTED AREA. AVOID FREEZING TISSUE.

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

HCC:C1

Boiling Pt:=118.9C, 246.F

Melt/Freeze Pt:=-24.C, -11.2F

Vapor Pres:8-11MM@2

5C

Vapor Density:1

Spec Gravity:1.381

pH:1

Viscosity:NP

Evaporation Rate & Reference:>1, BUTYL ACETATE=1

Solubility in Water:100%

Appearance and Odor:ACRID ODOR, CLEAR LIQUID, COLORLESS TO LIGHT BROWN.

Percent Volatiles by Volume:NP

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:NO

RX VIGOROUSLY W/COMBUST/READILY OXIDIZABLE MATLS,ORG SOLVENT,METAL
POWDERS,CARBIDES,CYANIDES,SULFIDES,ALKALIES.

Stability Condi

on to Avoid:UNSTABLE W/HEAT.RELEASES TOXIC GASES.

Hazardous Decomposition Products:RELEASED TOXIC OXIDES OF NITROGEN.

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

Waste Disposal Methods:CERCLA:RQ=1000LBS/454KG.CLEANUP MATL MAY BE RCRA
HAZ WASTE DUE TO CORRO CHARACTERISTIC.COMPLY W/FED/STATE/LOC
REGS.IF APPROVED DRAIN NEUTRALIZED WASHINGS TO WASTE TREATMENT
PLANT/TRANSFER TO DISPO CON TRACTOR.

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