

E.I. DUPONT DE NEMOURS & CO, INC. -- NITRIC ACID,40 DEG BAUME -- 6810-00-236-5670

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

Product ID:NITRIC ACID,40 DEG BAUME

MSDS Date:10/01/1985

FSC:6810

NIIN:00-236-5670

MSDS Number: BDLTZ

=== Responsible Party ===

Company Name:E.I. DUPONT DE NEMOURS & CO, INC.

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19899

Country:US

Info Phone Num:800-441-944

2 OR 302-999-4946

Emergency Phone Num:800-441-3637

Preparer's Name:J.C. WATTS

CAGE:19898

=== 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

Company Name:E.I. DUPONT DE NEMOURS & CO., INC.

Box:1635

CAGE:19898

Company Name:VAN WATERS AND ROGERS DIV OF UNIVAR CORP.

Address:650 W 8TH SOUTH

Box:2369

City:SALT LAKE CITY

State:UT

ZIP:84110

Country:US

Phone:801-

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

Ingred Name:NITRIC ACID (SARA III)
CAS:7697-37-2
RTECS #:QU5775000
Fraction by Wt: 61.4%
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: BALANCE

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

LD50 LC50 Mixture:ORAL: 50-500 MG/KG
Routes of Entry: Inha
lation:YES Skin:UNKNOWN Ingestion:YES
Health Hazards Acute and Chronic:ACUTE:CORROSIVE TO ALL BODY
TISSUES;SKIN: IRRITATION,RASH;EYES:IRRITATION,TEARING,BLURRING OF
VISION;IRRITATION OF RESPIRATORY TRACT OR G.I.TRACT.
CHRONIC:HARMFUL,TISSUE AND LUNGS DAMAGE.
Effects of Overexposure:LIQ & VAPOR CAUSES SEVERE BURNS.HARNFUL IF
INHALED.W LUNG INJURY.MAY PRODUCE DANGEROUS TOXIC GASES.
Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS MAY BE
WORSEN.

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

First Aid:SKIN/EYES:FLUSH W PLENTY WATER.INHALED: REMOVE TO FRESH
AIR.GIVE CPR/02 IF NEED.REMOVE & WASH CONTAMINATED CLOTHES.GIVE LG
AMTS WATER W MILK OF MAGNESIA,MILK,MGO,EGG WHITES OLIVE OIL.DO NOT
INDUCE VOM ITING.AVOID CARBONATES CALL A PHYSICIAN.

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

Flash Point:NONE
Extinguishing Media:FOR FIRE IN AREA,USE WATER SPRAY TO COOL CONTAINERS
Fire Fighting Procedures:

WEAR CHEMICAL PROTECTIVE SUIT WITH SELF CONTD
BRTHG APP.

Unusual Fire/Explosion Hazard:OXIDIZER INCREASES COMBUSTIBILITY.CAN
IGNITE COMBUST,OXID MATL.MAY PRODUCE TOXIC GAS.METALS GIV H2

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

Spill Release Procedures:ELIMINATE IGNITION SOURCES. STOP LEAK W/O
RISK. EVACUATE AREA. SM SPILL:ABSORB WITH INERT ABSORBENT,FLUSH
AREA WITH WATER. LG SPILL:NEUTRALIZE WITH SODA ASH. FLUSH
NEUTRALIZED SOLUTION TO SEWER IN AC
CORDANCE WITH INTERNATIONAL
FED,STA, & LOCAL REGS.

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

Handling and Storage Precautions:STORE IN COOL,DRY,WELL VENT,LOW FIRE
RISK AREA. PROTECT CONTRS FROM PHYS DAMAGE.KEEP OUT OF DIR RAYS OF
SUN AWAY FR ORG PROD & OTHER EASILY OXID MATL

Other Precautions:SEN CLOSURES CAREFULLY.NEVER USE PRESSURE TO
EMPTY.WASH CONTAINERS BEFORE RE-USE.DO NOT BREATH VAPOR.AVOID
CONTACT.WASH THOROUGHLY AFTER HANDLING.REFER TO DU
PONT NITRIC ACID
DATA SHEET.

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

Respiratory Protection:SCBA, SUPPLIED AIR RESPIRATOR

Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.

Protective Gloves:RUBBER

Eye Protection:CHEM SPLASH GOGGLES

Other Protective Equipment:RUBBER BOOTS,FULL PROTECTIVE CLOTHNG,HARD
HAT, CHEMICAL SUIT.

Supplemental Safety and Health

38 DEG BE:BOILING POINT:117-243F & SP. GRAVITY =1.355 (56.5%). 40 DEG
BE:BOILING POINT:119-246F & SP.GRAVITY

= 1.381 (61.4%). 42 DEG

BE:BOILING POINT:120-248F & SP.GRAVITY =1.408 (67.2%)

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

HCC:C1

Boiling Pt:B.P. Text:246F,119C

Melt/Freeze Pt:M.P/F.P Text:-12F,-24C

Vapor Pres:9.5

Vapor Density:1.0

Spec Gravity:1.381

pH:1.0

Evaporation Rate & Reference:APPROX 1 (BUTYL ACETATE)

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS-LIGHT BROWN CLEAR LIQUID WITH AN ACRID
ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid: YES

CYANIDES, SULFIDES, ORGANICS, METALS, CARBIDES, OXIDIZABLE MATL.

Stability Condition to Avoid: HEAT, IGNITION SOURCES

Hazardous Decomposition Products: NITROGEN OXIDES AND OTHER OXIDES;
TOXIC FUMES; FLAM GAS

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

Waste Disposal Methods: KEEP IN COVERED DRUMS, PENDING DISPOSAL. HANDLE &
DISPOSE IN FULL COMPLIANCE WITH ALL APPLICABLE

INTERNATIONAL, FEDERAL, STATE, & LOCAL REGULATIONS.

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