

E.I. DUPONT DE NEMOURS & CO,INC. -- NITRIC ACID STRONG -- 6810-00-241-1193

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Product Identification  
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Product ID:NITRIC ACID STRONG

MSDS Date:11/01/1987

FSC:6810

NIIN:00-241-1193

MSDS Number: BDMLZ

=== 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:800-441-9442

Emergency P

hone Num:800-441-3637(800-424-9300 CHEMTREC)

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

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Composition/Information on Ingredients  
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Ingred Name:NITRIC ACID (SARA III)

CAS:7697-37-2

RTECS #:QU5775000

Fraction by Wt:

>90%  
OSHA PEL:2 PPM/4 STEL  
ACGIH TLV:2 PPM/4 STEL; 9192  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 50-500 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:MAY CAUSE IRRITATION OR BURNS TO SKIN  
AND EYES BOTH FROM VAPORS AND CONTACT WITH LIQUID. INHALATION OF  
VAPORS MAY CAUSE IRRITATION  
OF UPPER RESPIRATORY TRACT. INGESTION  
MAY CAUSE SEVERE DAMAGE TO MUCOUS IN MOUTH, THROAT AND ESOPHAGUS;  
SEVERE GI TRACT IRRITATION.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.  
Effects of Overexposure:INHALATION: SNEEZING, WHEEZING, COUGHING,  
SHORTNESS OF BREATH. EYES: BURNING SENSATION, TEARING, PAIN,  
REDNESS. SKIN: REDNESS, PAIN. INGESTED: BURNING SENSATION OF MOUTH,  
THROAT, AND ESOPHAGUS; SEVERE STOMACH PAIN, NAUSEA, VOMITING.  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING  
RESPIRATORY DISORDERS MAY HAVE INCREASED SUSCEPTIBILITY TO EFFECTS  
OF THIS MATERIAL.

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

First Aid:INHALED: REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE  
ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. SEE  
DOCTOR. EYES: FLUSH WITH LOTS OF WATER FOR 15 MINUTES. SEE DOCTOR.  
SKIN: REMOVE CONTAMINATED CLOTHES. FLUSH WITH LOTS OF WATER. SEE  
DOCTOR. INGESTED: DO NOT INDUCE VOMITING! IF CONSCIOUS, GIVE LARGE  
QUANTITY OF WATER. GET IMMEDIATE MEDICAL ATTENTION.

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

Extinguishing Media:WATER, DRY CHEMICAL, OR SODA ASH. USE WATER SPRAY  
TO COOL CONTAINERS AND REDUCE VAPORS.  
Fire Fighting Procedures:WEAR FULL ACID PROTECTIVE CLOTHING AND  
SELF-CONTAINED BREATHING APPARATUS WHERE CONTACT WITH FUMES OR ACID

EXISTS. RUN-OFF FROM MAY CAUSE POLLUTION.  
Unusual Fire/Explosion Hazard:NITRIC ACID INCREASES THE FLAMMABILITY OF  
AND CAN IGNITE MANY ORGANIC MATERIALS SUCH AS WOOD, SOLVENTS, ETC  
AND CAN RELEASE TOXIC OXIDES OF NITROGEN.

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

Spill Release Procedures:EVACUATE AREA. ISOLATE AND DENY ENTRY. WEAR  
SCBA AND CHEMICAL PROTECTIVE CLOTHING. CONTAIN SPILL. FLUSH AREA  
WITH LARGE AMOUNT OF WATER. NEUTRALIZE WASHINGS WITH  
SODA ASH OR  
LIME. DO NOT FLUSH TO SEWE R. REPORT, IF REQUIRED.  
Neutralizing Agent:SODA ASH OR LIME

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

Handling and Storage Precautions:KEEP CONTAINERS CLOSED. KEEP AWAY FROM  
HEAT, SPARKS, AND FLAME. DO NOT STORE NEAR INCOMPATIBLES. DO NOT  
PRESSURIZE TO EMPTY.  
Other Precautions:CONTAINERS MUST NOT BE WASHED OUT OR USED FOR OTHER  
PURPOSES. LOOSEN CLOSURES CAREFULLY.

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

Respiratory Protection:IN AN EMERGENCY USE NIOSH/MSHA APPROVED  
SELF-CONTAINED BREATHING APPARATUS.  
Ventilation:LOCAL EXHAUST TO MAINTN BELOW TLV.  
Protective Gloves:NEOPRENE  
Eye Protection:GOGGLES/FACE SHIELD  
Other Protective Equipment:(FOR EMERGENCIES) WEAR FULL COVERING  
ACID-RESISTENT SUIT WITH RUBBER BOOTS. EYE WASH STATION & SAFETY  
SHOWER.  
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFO  
RE REUSE.  
Supplemental Safety and Health  
FOR DAILY PROTECTION: USE APRON, NEOPRENE GLOVES. MIL-STD-1218 ALSO  
APPLIES.

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

HCC:D4  
Boiling Pt:B.P. Text:185F,85C  
Melt/Freeze Pt:M.P/F.P Text:-45F,-43C  
Vapor Pres:51MMHG@77F  
Vapor Density:>1(AIR=1)  
Spec Gravity:1.5  
pH:1  
Evaporation Rate & Reference:>1 (N-BUTYL ACETATE=1)  
Solubility in Water:COMPLETE  
Appearance and Odor:COLORLESS TO LIGHT BROWN CLEAR LIQUID. ACRID ODOR.

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

Stability Indicator/Materials to Avoid: YES

OXIDIZABLE MATERIALS, ORGANIC SOLVENTS, METAL POWDERS, CARBIDES,  
CYANIDES, SULFIDES, AND ALKALIES.

Stability Condition to Avoid: HEAT-RELEASES TOXIC GASES.

Hazardous Decomposition Products: OXIDES OF NITROGEN

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

Waste Disposal Methods: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND  
FEDERAL REGULATIONS. IF APPROVED, DRAIN

NEUTRALIZED WASHINGS TO A

WASTE TREATMENT PLANT OR TRANSFER TO A DISPOSAL CONTRACTOR.

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