



Product Information (203) 740-3471 / Emergency Assistance CHEMTREC 1-800-424-9300 or 202-483-7616

## MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: NITRIC ACID  
This MSDS is valid for all grades and catalog numbers

### General Information

Company's Name: PHARMCO PRODUCTS, INC.	Date MSDS Revised: Nishant-8/23/99
Company's Street: 58 VALE RD.	Safety Data Review Date: 8/23/99
Company's City: BROOKFIELD	Preparer's Company: PHARMCO PRODUCTS, INC.
Company's State: CT	Preparer's St Or P. O. Box: 58 VALE RD.
Company's Zip Code: 06804	Preparer's City: BROOKFIELD
Company's Emerg Ph #: (203) 740-3471	Preparer's State: CT
Company's Info Ph #: (203) 740-3471	Preparer's Zip Code: 06804

### Ingredients/Identity Information

Ingredient: NITRIC ACID (SARA III)	CAS Number: 7697-37-2
Ingredient Sequence Number: 01	OSHA PEL: 2 PPM/4 STEL
Percent: 70.5	ACGIH TLV: 2 PPM/4 STEL; 9192
NIOSH (RTECS) Number: QU5775000	

### Physical/Chemical Characteristics

Appearance And Odor: COLORLESS	Specific Gravity: 1.42
LIQUID,PUNGENT ODOR	Evaporation Rate And Ref: <1(BUTYL ACETATE)
Boiling Point: 251.6F/122C	Solubility In Water: COMPLETE
Vapor Pressure (MM Hg/70 F): 8	Percent Volatiles By Volume: N/A
Vapor Density (Air=1): 1.58	

### Fire and Explosion Hazard Data

Flash Point: N/A  
Lower Explosive Limit: N/A  
Upper Explosive Limit: N/A  
Extinguishing Media: IF INVOLVED IN A FIRE,USE WATER SPRAY  
Special Fire Fighting Proc: AVOID INHALE OF GAS.USE SELF-CNTND BRTHG

APP,FULL PROT EQUIP

Unusual Fire And Expl Hazrds: WILL INCREASE FLAMABILITY OF WOOD,ORGANICS.  
CAUSES EXPLOS W H\*2S,METAL POWDERS,CARBIDES,TURPENTINE.

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#### Reactivity Data

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Stability: YES

Materials To Avoid: METALS,H\*2S,WOOD,EXCELSIOR,PAPER PRODUCTS,SIMILAR  
ORGANICS.

Hazardous Decomp Products: POISONOUS OXIDES OF NITROGEN(GASEOUS)

Hazardous Poly Occur: NO

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#### Health Hazard Data

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Signs/Symptoms Of Overexp: SEVER BURNS TO EYES,SKIN.INHALE OF VAPOR  
DAMAGES RESPIR TRACT.SYMPTOMS MAY BE DELAYED.ING:CAN B.FATL

Emergency/First Aid Proc: SKIN:FLUSH WITH PLENTY WATER.EYES:FLUSH W WATER  
15 MIN.GET IMMEDIATE MEDICAL ATTENTION.IF INHALED:REMOVE TO FRESH AIR,GET  
IMMEDIATE MEDICAL ATTENTION.INGESTION:DRINK LG VOL OF WATER TO DILUTE.DO  
NOT INDUCE VOMITING.

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#### Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: FLUSH WITH PLENTY OF WATER AND NEUTRALIZE  
WITH ALKALINE MATL SUCH AS SODA ASH,LIME,ETC.PROVIDE ADEQUATE VENTILATION  
AS OXIDES OF NITROGEN AND CO\*2 ARE GENERATED DURING NEUTRALIZATION.

Waste Disposal Method: DILUTE AND NEUTRALIZE.IF PERMITTED BY LOCAL,STATE  
AND FEDERAL REGULATIONS,FLUSH NEUTRAL RESIDUE TO SEWER WITH PLENTY OF  
WATER.CONTACT LOCAL AUTHORITIES FOR DISPOSAL COMPLIANCE.

Precautions-Handling/Storing: STORE IN WELL-VENTILATED PROPERLY DRAINED  
SITE AWAY FROM HEAT,SUN.ISOLATE FROM METALS,ORGANICS,WOOD,PAPER  
PRODUCTS.

PROTECT FROM PHYSICAL DAMAGE.

Other Precautions: NITRIC ACID VAPOR AND OXIDES ARE INSIDIOUS.SYMPTOMS  
FROM INHALATION MAY BE DELAYED.DO NOT BREATH FUMES.SEE MCA CHEMICAL  
SAFETY

DATA SHEET SD-5,FROM MANUFACT CHEM ASSOC.IN WASHINGTON D.C.

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#### Control Measures

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Respiratory Protection: USE SELF-CNTND OR CLEAN AIR SUPPLIED BREATHING  
APPARATUS.

Ventilation: LOCAL EXHAUST SUFFICIENT TO ELIMINATE ALL FUMES.

Protective Gloves: NEOPRENE

Eye Protection: CHEM SAFETY GOGGLES

Other Protective Equipment: NEOPREN APRON/SHOES,HARD HAT,NEOPREN CLOTHING,  
FACE SHIELD

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#### Transportation Data

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DOT PSN Code: KFD  
DOT Proper Shipping Name: NITRIC ACID  
DOT Class: 8  
DOT ID Number: UN2031  
DOT Pack Group: II  
DOT Label: CORROSIVE  
IMO PSN Code: KPF  
IMO Proper Shipping Name: NITRIC ACID  
IMO Regulations Page Number: 8195  
IMO UN Number: 2031  
IMO UN Class: 8  
IMO Subsidiary Risk Label: -  
IATA PSN Code: RWF

IATA UN ID Number: 2031  
IATA Proper Shipping Name: NITRIC ACID  
IATA UN Class: 8  
IATA Label: CORROSIVE  
AFI PSN Code: RWF  
AFI Symbols: 0  
AFI Prop. Shipping Name: NITRIC ACID  
AFI Class: 8  
AFI ID Number: UN2031  
AFI Pack Group: II  
AFI Label: CORROSIVE  
AFI Basic Pac Ref: 12-14

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#### Disposal Data

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Refer to applicable regional, state and federal codes.

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#### Label Data

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Special Hazard Precautions: POISONOUS; MAY BE FATAL IF INHALED, SWALLOWED  
OR ABSORBED THROUGH SKIN. CONTACT MAY CAUSE BURNS TO SKIN AND EYES. FIRE  
MAY PRODUCE IRRITATING OR POISONOUS GASES. RUNOFF FROM FIRE CONTROL OR  
DILUTION WATER MAY CAUSE POLLUTION.

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The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.