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THE POWER OF THREE<sup>®</sup>

**PHARMCO-AAPER**

AND COMMERCIAL ALCOHOLS

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

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## MATERIAL SAFETY DATA SHEETS

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Manufacturer: PHARMCO-AAPER  
58 Vale Road  
Brookfield, CT 06804  
Phone (203) 740-3471  
Fax (203) 740-3481  
  
1101 Isaac Shelby Drive  
Shelbyville, KY 40065  
Phone (502) 633-0650  
Fax (502) 633-0685

Emergency Contact:

CHEMTREC 1-800-424-9300

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**SECTION 1 PRODUCT IDENTIFICATION**

PRODUCT NAME: DI N PROPYLAMINE

TRADENAME: DI N PROPYLAMINE

COMMON CHEMICAL NAME: Di n propylamine

SYNONYM: N Propyl 1 propanamine; N,N-dipropylamine; dipropylamine; N-dipropylamine

MOLECULAR FORMULA: C(6)H(15)N

MOLECULAR WT.: 101.2000 PRODUCT USE:

CHEMICAL FAMILY: Amines

**SECTION 2 INGREDIENTS**

CHEMICAL NAME: CAS NUMBER: AMOUNT:

N Propanol HP 71 23 8 < 1.0 %

PEL TLV DATA: ACGIH TLV

PEL TLV DATA: SKIN

PEL TLV DATA: ACGIH TLV

STEL 250 PPM

PEL TLV DATA: ACGIH TLV

TWA 200 PPM

N Propylamine HPC 107 10 8 < 1.0 %

PEL TLV DATA: NOT ESTABLISHED

Di n propylamine HPC 142 84 7 > 99.0 %

PEL TLV DATA: NOT ESTABLISHED

**SECTION 3 PHYSICAL PROPERTIES**

COLOR: Colorless

FORM/APPEARANCE: Liquid

ODOR: Ammonia

TYPICAL LOW RANGE HIGH UNIT OF MEASURE

SPECIFIC GRAVITY: 0.74

PH: 12 SU

PH ANALYTICAL METHOD: 3% AQUEOUS SOLUTION

TYPICAL LOW RANGE HIGH DEG. @ PRESSURE

BOILING POINT: 110 111 C 760 MM HG  
FREEZING POINT: 63 C 760 MM HG  
DECOMP. TEMP: NOT AVAILABLE  
TYPICAL LOW RANGE HIGH UNIT OF MEASURE @ TEMPERATURE  
SOLUBILITY: 50 G/L 20 C  
VAPOR PRESSURE: 38 MILLIBARS @ 20 C

#### SECTION 4 FIRE AND EXPLOSION DATA

TYPICAL LOW RANGE HIGH DEG. METHOD

FLASH POINT: 7 C DIN 51755

AUTOIGN. TEMP.: NOT AVAILABLE

FLAMM. LIMITS: 1.8 9.3

EXTINGUISHING MEDIA

Use water fog, foam, CO2 or dry chemical extinguishing media.

FIRE FIGHTING PROCEDURES

Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

UNUSUAL HAZARDS

Not applicable.

#### SECTION 5 HEALTH EFFECTS

ROUTES OF ENTRY FOR SOLIDS AND LIQUIDS INCLUDE EYE AND SKIN CONTACT, INGESTION AND INHALATION. ROUTES OF ENTRY FOR GASES INCLUDE INHALATION AND EYE AND SKIN CONTACT.

TOXICOLOGY TEST DATA: reuse.

FIRST AID EYES

Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention.

FIRST AID INGESTION

If swallowed, DO NOT INDUCE VOMITING. Dilute with water or milk and get immediate medical attention. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

FIRST AID INHALATION-

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

FIRST AID NOTES TO PHYSICIAN Not applicable.

FIRST AID MEDICAL CONDITIONS

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

FIRST AID SPECIAL PRECAUTION Not applicable.

#### SECTION 6 REACTIVITY DATA

REACTIVITY STABILITY Stable

REACTIVITY INCOMPATIBILITY Strong acids

REACT COND/HAZARDS TO AVOID: See Reactivity Incompatibility section.

REACT HAZ. DECOMP/POLYMER

Hazardous decomposition products: CO, CO2 and NOx.

Polymerization: Does not occur.

REACTIVITY CORROSIVE: Not corrosive.

REACTIVITY OXIDIZER: Not an oxidizer

#### SECTION 7 PERSONAL PROTECTION

PERSONAL PROTECTION CLOTHING

Gloves, coveralls, apron, and boots as necessary to prevent contact.

PERSONAL PROTECTION EYES

Chemical goggles; also wear a face shield if splashing hazard exists.

PERSONAL PROTECTION RESPIRATOR

If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator or an air supplied respirator as appropriate.

PERSONAL PROTECTION VENT

Use local exhaust to control vapors/mists.

PP EXPLOSION PROOFING

See Section 4 Fire and Explosion Data.

PERSONAL PROTECTION OTHER

Eyewash fountains and safety showers must be easily accessible.

Shower after handling.

SECTION 8 SPILL LEAK/ENVIRONMENTAL

SPILL SPILLS & LEAKS

Spills should be contained, solidified and placed in suitable containers for disposal in a RCRA licensed facility. This material

Rabbit, Dermal LD50 925 MG/KG

Moderately Toxic

Rabbit, Eye Irritation (unrinsed)

Corrosive

Rabbit, Primary Skin Irritation

Corrosive

Rat, Inhalation Safety Screen, 8 hr LETHAL

> 3 min; sat vapors 20 deg C

Rat, Oral LD50 500 MG/KG

Moderately Toxic

EOE ACUTE IRRITATIONS

This material is corrosive to the body tissues. Skin contact with the liquid may result in dermatitis and deep burns. Eye contact may result in burns and permanent injury. Ingestion of alkaline corrosives such as dipropylamine may result in burns to the lips, tongue, oral mucosa and esophagus. Vomiting and abdominal pain may also occur. Inhalation of vaporized caustics may result in dyspnea and pulmonary edema. Acute inhalation overexposure may result in erythema, faintness, cough, chest pains, dizziness, depression, convulsions, narcosis and possibly unconsciousness. In laboratory rats exposed to dipropylamine at 1000 ppm/4 minutes, 2 of 6 died.

Ingestion may result in severe gastric disturbances and corrosive damage.

EOE CHRONIC

There are no known chronic effects associated with this material.

FIRST AID SKIN

Wash affected areas with water while removing contaminated clothing.

Get immediate medical attention. Launder contaminated clothing before is RCRA hazardous due to its properties.

SPILL WASTE DISPOSAL

Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

SPILL CONTAINER DISPOSAL

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

ENVIRONMENTAL EFFECTS:

Golden orfe, Static 48 hr LC50 .1 .5 G/L

Practically Nontoxic

SECTION 9 STORAGE AND HANDLING

STORAGE GENERAL STORAGE

Store materials to avoid sources of ignition and excessive heat.

STORAGE OTHER

Consult other sections of this MSDS for information on reactivity and flammability.

**SECTION 10A FEDERAL REGULATORY INFORMATION**

TSCA INVENTORY STATUS:

LISTED ON INVENTORY: YES

NOT LISTED, (R & D) ONLY:

NOT LISTED, ARTICLE:

NOT LISTED, EXPORTED ITEM:

NOT LISTED, PMN EXEMPTION: PMN EXEMPT. #:

NOT LISTED, BY PRODUCT/FUEL:

NOT LISTED, WASTE PRODUCT:

NOT LISTED, TSCA EXEMPT: FDA ONLY: FIFRA ONLY:

NOT LISTED, TSCA REGULATED:

SARA LISTED CHEMICALS:

INFORMATION NOT AVAILABLE

TSCA REGISTRY: RCRA HAZ. WASTE NO.: U110

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS Number	RQ
Dipropylamine	142-84-7	5,000lb

**SECTION 10B STATE REGULATORY INFORMATION**

STATE REGULATORY INFORMATION: (BY COMPONENT) INFORMATION NOT AVAILABLE

**SECTION 10C OTHER REGULATORY INFORMATION**

HAZARD RATINGS:

HEALTH: FIRE: REACTIVITY: SPECIAL: HMIS 3 3 0

**SECTION 10D ADDITIONAL REGULATORY TEXT INFORMATION NOT AVAILABLE**

**SECTION 11 TRANSPORTATION INFORMATION**

DOT PROPER SHIPPING NAME:

REFER TO BILL OF LADING

DOT TECHNICAL NAME:

REFER TO BILL OF LADING

DOT PRIMARY HAZARD CLASS: DOT SECONDARY HAZARD CLASS:

REFER TO BILL OF LADING REFER TO BILL OF LADING DOT LABEL REQUIRED:

REFER TO BILL OF LADING

DOT PLACARD REQUIRED: DOT POISON CONSTITUENT:

REFER TO BILL OF LADING REFER TO BILL OF LADING

COMMODITY CODES: NA NA UN/NA CODE: 2383 E/R GUIDE:

BILL OF LADING DESCRIPTION:

FOR THE MOST UP TO DATE D.O.T. SHIPPING DESCRIPTION, PLEASE REFER TO THE BILL OF LADING!

CLASS: P. G.: SHIPPING NAME:

TDG:

IATA:

IMO:

**SECTION 12 PRODUCT LABEL**

DANGER: FLAMMABLE, CORROSIVE LIQUID

CONTAINS: N Propanol (CAS NO.: 71 23 8)

N Propylamine (CAS NO.: 107 10 8)

Di n propylamine (CAS NO.: 142 84 7)

Use with local exhaust. Wear a NIOSH/MSHA approved organic vapor respirator, chemical goggles, and other protective clothing as necessary to prevent contact. Eyewash fountains and safety showers must be easily accessible. If splashing may occur, wear a full face shield.

THIS MATERIAL IS CORROSIVE TO BODY TISSUES. CONTACT WITH SKIN AND EYES MAY RESULT IN BURNS. PERMANENT EYE INJURY MAY RESULT. INHALATION MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT AND INFLAMMATION OF THE LUNGS. INGESTION RESULTS IN GASTRIC DISTURBANCES AND CORROSIVE DAMAGE.

FIRST AID:

Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention. If swallowed, DO NOT INDUCE VOMITING. Dilute with water or milk and get immediate medical attention. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

Not applicable.

Wash affected areas with water while removing contaminated clothing.

Get immediate medical attention. Launder contaminated clothing before reuse.

Not applicable.

IN CASE OF FIRE:

Use water fog, foam, CO2 or dry chemical extinguishing media.

Firefighters should be equipped with self contained breathing apparatus and turn out gear.

IN CASE OF SPILLS/LEAKS:

Spills should be contained, solidified and placed in suitable containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

EMPTY CONTAINERS:

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

DISPOSAL:

Incinerate or bury in a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

HANDLING AND STORAGE:

Store materials to avoid sources of ignition and excessive heat.

IN CASE OF CHEMICAL EMERGENCY: CALL CHEMTREC DAY OR NIGHT FOR ASSISTANCE AND INFORMATION CONCERNING SPILLED MATERIAL, FIRE, EXPOSURE AND OTHER CHEMICAL ACCIDENTS 800 424 9300

ATTENTION: FOR INDUSTRIAL USE ONLY

REFER TO OUR TECHNICAL BULLETIN AND MATERIAL SAFETY DATA SHEET REGARDING SAFETY, USAGE, APPLICATIONS, HAZARDS, PROCEDURES AND DISPOSAL OF THIS PRODUCT.

CONSULT YOUR SUPERVISOR FOR ADDITIONAL INFORMATION.

HMS: H3 F3 R0

The information contained herein is based on data considered to be accurate based on the material as packaged. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It is the user's obligation to determine the conditions of safe use of the product. While this MSDS is based on technical data judged to be reliable, PHARMCO-AAPER assumes not responsibility for the completeness or accuracy of the information contained herein.