

An ISO 9001:2000
Certified Company



THE POWER OF THREE³

PHARMCO-AAPER

AND COMMERCIAL ALCOHOLS

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

MATERIAL SAFETY DATA SHEETS

Part Number/Trade Name: FORMALIN 10%

This MSDS is valid for all grades and catalog numbers for 10% Formalin

General Information

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

Ingredients/Identity Information

Proprietary: NO

Ingredient: FORMALDEHYDE (SARA III)

Ingredient Sequence Number: 01

Percent: 10

NIOSH (RTECS) Number: LP8925000

CAS Number: 50-00-0

OSHA PEL: SEE 1910.1048

ACGIH TLV: C 0.3 PPM; A2; 9394

Other Recommended Limit: NONE

RECOMMENDED

Physical/Chemical Characteristics

Appearance And Odor:
LIQUID;COLORLESS;CHARACTERISTIC
ODOR.

Boiling Point: 216F,102C

Vapor Pressure (MM Hg/70 F): 79

Vapor Density (Air=1): >1

Specific Gravity: 1.07

Decomposition Temperature: UNKNOWN

Evaporation Rate And Ref: 1 WATER=1

Solubility In Water: COMPLETE

Corrosion Rate (IPY): UNKNOWN

Fire and Explosion Hazard Data

Flash Point: NONE

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Special Fire Fighting Proc: WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS.

Unusual Fire And Expl Hazrds: COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.

Reactivity Data

Stability: YES

Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.

Materials To Avoid: STRONG OXIDIZING AGENTS,CAUSTIC SODA,ALKALIS,AMINES, ACIDS.

Hazardous Decomp Products: CARBON DIOXIDE,CARBON MONOXIDE

Hazardous Poly Occur: NO

Health Hazard Data

LD50-LC50 Mixture: ORAL RAT LD50 = 100 MG/KG (RTECS 93-3)

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: **POISON** THIS IS A 10% SOLUTION OF FORMALDEHYDE.FORMALDEHYDE IS A MUTAGEN BY INHALATION,INGESTION AND SKIN ABSORPTION.FORMALDEHYDE CAN CAUSE SEVERE EYE AND CONTACT LENS DAMAGE.IT CAN

CAUSE SKIN,RESPIRATORY AND GI TRACT IRRITATION.CHRONIC:MAY CAUSE CANCER.

Carcinogenicity - NTP: YES

Carcinogenicity - IARC: YES

Carcinogenicity - OSHA: YES

Explanation Carcinogenicity: CONTAINS Formaldehyde [50-00-0] WHICH IS

LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A CARCINOGEN.

Signs/Symptoms Of Overexp: INGEST:BURNING MOUTH,VOMITING,ABDOMINAL PAIN,POSSIBLY DEATH.

Med Cond Aggravated By Exp: PERSONS WITH A HISTORY OF SKIN OR EYE DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE. PERSONS WITH LIVER, KIDNEY AND RESPIRATORY DISORDERS MAY ALSO BE AT INCREASED RISK.

Emergency/First Aid Proc: SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.IF IRRITATION PERSIST, GET MEDICAL HELP.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,GIVE 2 GLASSES OF WATER AND INDUCE VOMITING.FORMALDEHYDE CAN NOT

BE MADE NON-TOXIC.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.VENTILATE AREA.SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBANT(CLAY,SAND);PLACE IN PROPER CONTAINER FOR DISPOSAL.

Neutralizing Agent: CEMENT POWDER OR FLY ASH

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL REGULATIONS.EPA CODE IS U122.

Precautions-Handling/Storing: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM IGNITION SOURCES. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT AGAINST PHYSICAL DAMAGE.

Other Precautions: FOLLOW LABEL DIRECTIONS.AVOID BREATHING VAPORS.AVOID SKIN AND EYE CONTACT.

Control Measures

Respiratory Protection: WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS.

Ventilation: USE LOCAL EXHAUST.

Protective Gloves: RUBBER

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices: WASH HANDS.SEPERATE WORK CLOTHES FROM STREET

CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.

Suppl. Safety & Health Data: NONE

Transportation Data

DOT PSN Code: LUO	IATA Proper Shipping Name: POISONOUS LIQUID, N.O.S.
DOT Proper Shipping Name: POISONOUS LIQUIDS, N.O.S.	IATA UN Class: 6.1
DOT Class: 6.1	IATA Label: KEEP AWAY FROM FOOD
DOT ID Number: UN2810	AFI PSN Code: UIV
DOT Pack Group: III	AFI Prop. Shipping Name: POISONOUS LIQUIDS, N.O.S.
DOT Label: KEEP AWAY FROM FOOD	AFI Class: 6.1
IMO PSN Code: LYR	AFI ID Number: UN2810
IMO Proper Shipping Name: POISONOUS LIQUIDS, N.O.S.	AFI Pack Group: III
IMO Regulations Page Number: 6231	AFI Label: KEEP AWAY FROM FOOD
IMO UN Number: 2810	AFI Basic Pac Ref: 10-10
IMO UN Class: 6.1	MMAC Code: NR
IMO Subsidiary Risk Label: -	N.O.S. Shipping Name: FORMALDEHYDE.
IATA PSN Code: UIV	Additional Trans Data: **POISON**
IATA UN ID Number: 2810	

Disposal Data

Refer to applicable regional, state and federal codes.

Label Data

Common Name: CMS FORMALIN 10% BUFFERED
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
Special Hazard Precautions: **POISON** THIS IS A 10% SOLUTION OF FORMALDEHYDE.FORMALDEHYDE IS A MUTAGEN BY INHALATION,INGESTION AND SKIN ABSORPTION.FORMALDEHYDE CAN CAUSE SEVERE EYE AND CONTACT LENS DAMAGE.IT CAN CAUSE SKIN,RESPIRATORY AND GI TRACT IRRITATION.CHRONIC:MAY CAUSE CANCER. FLUSH WITH WATER FOR 15 MINUTES.IF IRRITATION PERSIST,GET MEDICAL HELP. INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. INGEST:GET PROMPT QUALIFIED MEDICAL ATTENTION.IF CONSCIOUS,GIVE 2 GLASSES OF WATER AND INDUCE VOMITING.FORMALDEHYDE CAN NOT BE MADE NON-TOXIC.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y

Label Data

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
Formaldehyde	50-0-0--0	100lb

California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Formaldehyde

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.