

Haven Corporation

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PRODUCT PC 421 MARKING INK- ALL COLORS ISSUE DATE 01 Jan. 1989
PRODUCT CODE ALL COLORS REVISED DATE 01 Feb. 2006

Emergency Number: Haven Corporation 410-485-6801

SECTION 1 : PRODUCT IDENTIFICATION

TRADE NAME PC 421 MARKING INK – ALL COLORS

CHEMICAL FAMILY

FORMULA Organic Mixture

HMIS RATING:

1 Health **1** Flammability
0 Reactivity - Other

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High and 4 = Extreme)

SECTION 2 :- HAZARDOUS INGREDIENTS

Haven Corporation has identified the following chemical ingredient(s) as hazardous.

Ingredient	CAS#	By Weight %
EPOXY RESIN MIX	MIXTURE	30 – 40
**TITANIUM DIOXIDE	13463-67-7	10-20
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	10 – 20
*NON-HAZARDOUS INGREDIENTS	NA	50-60
Product May Contain One or More of the Following:		
**CARBON BLACK	1333-86-4	3-6
**DIARYLIDE YELLOW PIGMENT	4531-49-1	3-6

*Unidentified ingredients are not considered hazardous per 29 CFR 1910.1200

**Inhalation of Nuisance dust is extremely unlikely due to the product's liquid

SECTION 3 :- PHYSICAL DATA

DENSITY	Not Established	FORM	LIQUID/PASTE
SPECIFIC GRAVITY	1.45 g/ml	PH	Not Determined
FREEZING POINT	Not Established	FLASH POINT	222 F
VAPOR PRESSURE	>1.0	VOLATILE %	205 g/L
BOILING POINT	185 C	MELTING POINT	N/A
CHEMICAL OXYGEN DEMAND (COD)	Not Established mg/l		
BIOLOGICAL OXYGEN DEMAND (BOD)	NOT DETERMINED		
SOLUBILITY IN WATER	Insoluble		
COLOR/ODOR	Various Colors(white, yellow, black, blue, orange, grey, red) /Mild		

NOTE : These physical properties are typical values for this product.

SECTION 4 :- FIRE AND EXPLOSION DATA

FLASH POINT	222 F
EXTINGUISHING MEDIA	Carbon dioxide, foam, dry chemical. NEVER allow run-off to enter sewers or waterways.
UNUSUAL FIRE & EXPLOSION HAZARDS	Wear self-contained breathing apparatus/protective clothing. Combustion produces carbon dioxide & carbon monoxide.

SECTION 5 :- FIRST AID DATA

Contact a physician in all cases of exposure. First aiders should provide for their own safety prior to rendering assistance.

EYES Take the victim immediately to the nearest eyewash or shower Wash affected eyes under running water for 15 minutes Seek medical attention immediately.

SKIN Remove contaminated clothing. Wash skin with soap & water. If irritation develops, contact a physician.

INGESTION If ingested do not induce vomiting. Contact physician immediately!!

INHALATION Move victim to fresh air. If troubled breathing persists, call a physician immediately!

CAUTION If unconscious - having trouble breathing - or in convulsions do not induce vomiting or give water.

NOTE: Always clean contaminated clothing and gear prior to reuse. NEVER administer anything to an unconscious person.

SECTION 6 :- HEALTH EFFECTS DATA

Primary Route(s) of Exposure : Eye, Skin, Inhalation and Ingestion

EYE CONTACT (ACUTE) May cause temporary irritation to the eyes.

INGESTION (ACUTE) The substance is moderately toxic if swallowed. May cause nausea, vomiting, diarrhea

INHALATION (ACUTE) VAPORS/MISTS: Exposure to vapors or mists is possible and may produce irritation of the mucous membranes of nose, mouth, throat and respiratory tract. Large amounts may cause difficulty in breathing and be harmful. Headache or nausea may occur.

SECTION 7 :- PERSONAL PROTECTIVE DATA

RESPIRATORY PROTECTION With proper ventilation, no respirator is required.

VENTILATION General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists or aerosols may be released.

PROTECTIVE EQUIPMENT Chemically resistant apron boots and gloves. The availability of a safety shower is recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected body area. Launder contaminated clothing before reuse.
Use OSHA approved eye protection to prevent accidental contact and avoid irritation.

These are general recommendations to provide a safe level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility.

SECTION 8 :- TOXICOLOGY DATA

TOXICITY STUDIES :

Toxicity studies have not been conducted on this product. However toxicity literature surveys have been conducted on the ingredient(s) in section 2. The results are as follows:

Listed as suspected carcinogen by :		
IARC: NO	NTP: NO	OSHA: NO

SECTION 9 :- REACTIVITY DATA

INCOMPATIBILITY Strong Oxidizers and aliphatic amines

HAZARD DECOMPOSITION PRODUCTS None known

STABILITY Stable under recommended handling and storage conditions.

HAZARDOUS POLYMERIZATION No hazardous polymerization.

SECTION 10 : SPILLS & DISPOSAL DATA

In case of Transportation Accidents, call the following telephone number : 1-800-875-4286

SPILL CONTROL AND RECOVERY Evacuate and ventilate area. Eliminate ignition sources. Soak up into inert adsorbent material. NOT use sawdust or other organic materials. Collect for disposal in a plastic recovery drum. Use non-sparking tools. Flush residue with water to chemical drain.

DISPOSAL Incinerate or dispose of by an approved method at an approved secure facility.

Due to more restrictive waste disposal regulations, NEVER wastetreat or dispose of material until you check your appropriate local, state, & federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

SECTION 11 : TRANSPORTATION DATA

DOT PROPER SHIPPING NAME NON-REGULATED
HAZARD 0 / NON-REGULATED
UN/NA# 000000
DOT REPORTABLE QUANTITY (RQ) NOT APPLICABLE **Pkg Grp**
IMO NAME RESIN 000000
IMO Class/Sub Class NON-REGULATED/0/0
UN/NA# **Pkg Grp**
IATA NAME RESIN
IATA Cls/Sub Cls NON-REGULATED/0/0
UN/NA# 000000 **Pkg Grp**

EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT

SECTION 12: GENERAL STORAGE DATA

STORAGE TEMPERATURE: Material should be stored in the properly sealed original container. Store away from direct heat or sunlight.

SECTION 13: REGULATORY DATA

The following regulations apply to this product.

FEDERAL REGULATIONS

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:

Based on our evaluation, the following ingredients in this product are subject to this rule:

Chemical Name	CAS#	By Weight%	OSHA-PEL	ACGIH-TLV
Epoxy Resin Mix	Mixture	30 – 40	100 PPM	100 PPM
Diethylene Glycol Monobutyl Ether	112-34-5	10 – 20	100 PPM	100 PPM

CERCLA/SUPERFUND, 40 CFR 117, 302/304 : Notification of spills of this product is not required

SARA/SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986 (TITLE III)

Sections 302, 311, 312 & 313

SECTION 302 : Extremely Hazardous Substances

This product does not contain ingredient(s) listed in APPENDIX A of 40 CFR 355.

SECTIONS 311 & 312 - M.S.D.S REQUIREMENTS (40 CFR 370)

This product contains ingredient(s) that may require reporting under Hazardous Chemical Inventory Reporting

Immediate(Acute)health hazard

Delayed(Chronic) health hazard

Fire hazard

Sudden release of pressure hazard

Reactive Hazard

Under Section 311, submittal of MSDS or a list of product names to the local emergency planning commission, state emergency response commission, the local fire department is required after October 17, 1987. Consult the regulation for pertinent changes and updates.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372)

This product does not contain ingredient(s) listed under 40 CFR 372.65

Ingredient	CAS#	By Weight %
EPOXY RESIN MIX	MIXTURE	30 – 40
Diethylene Glycol Monobutyl Ether	112-34-5	10 – 20

TOXIC SUBSTANCE CONTROL ACT (TSCA)

TOXIC SUBSTANCE CONTROL ACT (TSCA): The chemical ingredient(s) in this product are listed on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION & RECOVERY ACT (RCRA), 40 CFR 261 SUBPARTS C & D

Please refer to section 10, disposal information for pertinent data.

TOTAL TOXIC ORGANICS

This product does not contain ingredient(s) on the list of Total Toxic Organics.

OSHA PROCESS SAFETY (1910.119)

This product does not contain ingredient(s) listed in APPENDIX A of 29 CFR 1910.119 of Highly Hazardous Chemicals, Toxics, and Reactives of OSHA process safety management.

CLEAN AIR ACT

This product contains ingredient(s) listed on the Hazardous Air Pollutants of CAA 40 CFR 112(G).

Ingredient	CAS#	By Weight %
Diethylene Glycol Monobutyl Ether	112-34-5	10 – 20

OZONE DEPLETING SUBSTANCES

This product does not contain ingredient(s) listed on Ozone Depleting Substances of CAA 40 CFR 82.

STATE REGULATIONS**CALIFORNIA PROPOSITION 65**

This product does not contain ingredient(s) listed on California Prop 65 suspected carcinogen list.

MICHIGAN CRITICAL MAERIALS

This product does not contain ingredient(s) listed on the Michigan Critical Material Register.

The information listed above does not include all Federal, State, and International regulations. The regulations listed above may change from time to time; it is the users responsibility to keep advised of current regulatory requirements.

Prepared by Haven Corporation Safety & Regulatory Compliance Department, based upon publicly available reference information.

SECTION 14 :- USER NOTIFICATION

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.
