
M A T E R I A L S A F E T Y D A T A S H E E T

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME : PH-1 HARDENER
 IDENTIFICATION NUMBER: PH-1HARD000B PREPARE / REVISED: 08/07/06
 PRODUCT USE/CLASS : POLYESTER/VINYL ESTER HARDENER

SUPPLIER: MANUFACTURER:
 Dudick, Inc. Dudick, Inc.
 1818 Miller Parkway 1818 Miller Parkway
 Streetsboro, Ohio 44241 Streetsboro, Ohio 44241

CHEM-TEL: 800-255-3924 CHEM-TEL: 800-255-3924
 24 HOURS A DAY 24 HOURS A DAY

PREPARER: DUDICK,INC PHONE: 800-322-1970

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SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	CUMENE HYDROPEROXIDE	80-15-9	85.0 %
02	CUMENE	98-82-8	15.0 %

ITEM	EXPOSURE LIMITS					
	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	NE	NE	NE	NO INFO	NE	YES
02	50 PPM	NO INFO	50 PPM	NO INFO	NE	YES

(See Section 16 for abbreviation legend)

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SECTION 3 - HAZARDS IDENTIFICATION

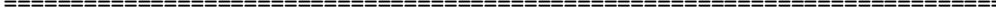
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*** EMERGENCY OVERVIEW ***: DANGER!---ORGANIC PEROXIDE. HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION. RESPIRATORY TRACT IRRITANT. WARNING!...SEVERE EYE AND SKIN IRRITANT. KEEP AWAY FROM ALL SOURCES OF IGNITION. STORE OUT OF DIRECT SUNLIGHT IN A COOL, WELL VENTILATED AREA. MAY BE FATAL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: EYE CONTACT MAY CAUSE SEVERE IRRITATION WITH CORNEAL INJURY. MAY CAUSE BLINDNESS.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION AND BURNS. SEVERE SKIN IRRITANT.

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| SECTION 3 - HAZARDS IDENTIFICATION |
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EFFECTS OF OVEREXPOSURE - INHALATION: MAY CAUSE IRRITATION OF THE NOSE, THROAT, AND LUNGS.

EFFECTS OF OVEREXPOSURE - INGESTION: INGESTION MAY CAUSE BURNS TO THE MOUTH, THROAT, AND ESOPHAGUS. INGESTION MAY CAUSE NAUSEA, CRAMPS, VOMITING, AND DIARRHEA. ASPIRATION HAZARD. PRODUCT MAY ENTER THE LUNGS DURING SWALLOWING AND CAUSE LUNG DAMAGE. MAY CAUSE GASTROINTESTINAL BLEEDING AND VOMITING OF BLOOD. INGESTION MAY BE FATAL UNLESS TREATED PROMPTLY.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: CUMENE HYDROPEROXIDE HAS BEEN REPORTED TO BE MUTAGENIC UNDER CONDITIONS OF METABOLIC ACTIVATION IN THE AMES TEST (100mg/PLATE). CUMENE HAS BEEN REPORTED TO CAUSE EMBRYOTOXICITY IN THREE DAY OLD CHICK EMBRYOS. PREEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY THIS PRODUCT.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION
INGESTION EYE CONTACT

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| SECTION 4 - FIRST AID MEASURES |
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FIRST AID - EYE CONTACT: HOLD OPEN EYE LIDS AND FLUSH WITH COPIOUS AMOUNTS OF FLOWING WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: WASH AFFECTED AREAS THOROUGHLY WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.

FIRST AID - INHALATION: REMOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, ARTIFICIAL RESPIRATION SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SUPPLEMENTAL OXYGEN MAY BE INDICATED. CALL A PHYSICIAN.

FIRST AID - INGESTION: IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. REMOVE CONTENTS OF STOMACH ONLY AS DIRECTED BY MEDICAL PERSONNEL. GIVE VICTIM PLENTY OF WATER TO DRINK IF CONSCIOUS.

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| SECTION 5 - FIRE FIGHTING MEASURES |
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FLASH POINT: 177 F LOWER EXPLOSIVE LIMIT: 0.9 %
(SETAFLASH CLOSED CUP) UPPER EXPLOSIVE LIMIT: 7.0 %

AUTOIGNITION TEMPERATURE: NE

EXTINGUISHING MEDIA: CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: HAZARDOUS CONDITIONS WILL RESULT THROUGH CONTAMINATION WITH INCOMPATIBLES OR EXPOSURE TO EXCESSIVE HEAT. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A LONG DISTANCE AND FLASH BACK. TOXIC FUMES MAY BE PRODUCED IF THIS PRODUCT IS INVOLVED IN A FIRE.

SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA. WATER MAY BE INEFFECTIVE

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| SECTION 5 - FIRE FIGHTING MEASURES |
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BUT MAY BE USED TO COOL FIRE EXPOSED CONTAINERS. FIGHT FIRE FROM A SAFE DISTANCE. WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

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| SECTION 6 - ACCIDENTAL RELEASE MEASURES |
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: DIKE AREA TO CONTAIN SPILLAGE. ABSORB EXCESS WITH SAND, EARTH, OR VERMICULITE. SCRAPE UP AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. WEAR ALL APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING SPILLS. USE NON-SPARKING TOOLS. IF A SPILL OR LEAK OCCURS IN EXCESS OF THE RQ, NOTIFY THE NATIONAL RESPONSE CENTER (1-800-424-8802).

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| SECTION 7 - HANDLING AND STORAGE |
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HANDLING: IF BODILY CONTACT OCCURS, REMOVE CONTAMINATED CLOTHING AT ONCE. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING VAPORS. FOR INDUSTRIAL USE ONLY. WEAR APPROPRIATE SAFETY EQUIPMENT WHEN HANDLING.

STORAGE: DO NOT STORE NEAR INCOMPATIBLES. DO NOT STORE NEAR EXCESSIVE HEAT OR NEAR SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. BUNGS MUST BE KEPT TIGHTLY CLOSED WHEN CONTAINERS ARE NOT IN USE OR ARE PLACED IN STORAGE AREAS.

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| SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION |
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ENGINEERING CONTROLS: GENERAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO MINIMIZE VAPOR CONCENTRATIONS. LOCAL EXHAUST MAY BE REQUIRED.

RESPIRATORY PROTECTION: WEAR A PROPERLY FITTED NIOSH/MSHA APPROVED RESPIRATOR WHEN EXPOSURE TO MISTS OR VAPORS IS LIKELY.

SKIN PROTECTION: IMPERVIOUS RUBBER OR NEOPRENE TYPE. CONSULT GLOVE MANUFACTURER FOR RECOMMENDATIONS.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED AS MINIMUM PROTECTION. GOGGLES RECOMMENDED FOR INDIVIDUALS MIXING THE RESIN AND CATALYST.

OTHER PROTECTIVE EQUIPMENT: CLEAN, FULL BODY COVERING TO MINIMIZE SKIN CONTACT WITH MATERIAL. AN EYEWASH STATION AND SAFETY SHOWER IS RECOMMENDED NEAR WORK AREA.

HYGIENIC PRACTICES: SMOKING OR EATING IN THE WORK AREA SHOULD NOT BE PERMITTED. WASH THOROUGHLY AFTER HANDLING MATERIAL.

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| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES |
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BOILING RANGE : N.A. VAPOR DENSITY : Is heavier than air
ODOR : SHARP,AROMATIC ODOR THRESHOLD : NE
APPEARANCE : LIQUID-CLEAR-YEL.EVAPORATION RATE: Is slower than Ether
SOLUBILITY IN H2O : SLIGHT
FREEZE POINT : NE SPECIFIC GRAVITY: 1.05
VAPOR PRESSURE : 13.9mmHG @68 F pH @ 0.0 % : NE
PHYSICAL STATE : LIQUID VISCOSITY : NE
COEFFICIENT OF WATER/OIL DISTRIBUTION: NE

(See Section 16 for abbreviation legend)

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| SECTION 10 - STABILITY AND REACTIVITY |
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CONDITIONS TO AVOID: HEAT, FLAME, CONTAMINANTS. UNDER NO CIRCUMSTANCES SHOULD THIS MATERIAL BE HEATED. A VIOLENT EXOTHERMIC REACTION CAN OCCUR. NEVER USE DRUM WARMERS ON THIS MATERIAL.

INCOMPATIBILITY: STRONG OXIDANTS. STRONG ACIDS. AMINES. SULFURIC ACID. STRONG ALKALIS. REDUCING AGENTS. TRANSITION METALS.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE TOXIC FUMES. OXIDES OF CARBON.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

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| SECTION 11 - TOXICOLOGICAL PROPERTIES |
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No product or component toxicological information is available.

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| SECTION 12 - ECOLOGICAL INFORMATION |
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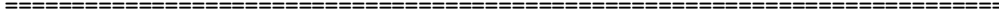
ECOLOGICAL INFORMATION: THE ECOLOGICAL TOXICITY OF THIS PRODUCT IS NOT KNOWN.

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| SECTION 13 - DISPOSAL CONSIDERATIONS |
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DISPOSAL METHOD: FOLLOW ALL RELEVANT LOCAL, STATE, AND FEDERAL REGULATIONS. THIS PRODUCT AND ANY ABSORBENTS USED IN SPILL CLEANUP ARE HAZARDOUS WASTES AND MUST BE DISPOSED OF ACCORDINGLY. DO NOT WELD,GRIND,OR USE CUTTING TORCHES ON EMPTY DRUMS. THIS PRODUCT EXHIBITS THE CHARACTERISTIC OF REACTIVITY PER RCRA AND MUST BE DISPOSED OF ACCORDINGLY. EMPTY CONTAINERS CONTAIN PRODUCT RESIDUE WHICH IS HAZARDOUS.DO NOT WELD,BRAZE, OR GRIND.KEEP AWAY FROM HEAT,FLAME, AND

SOURCES OF IGNITION.DO NOT REUSE EMPTY CONTAINERS.

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| SECTION 15 - REGULATORY INFORMATION |
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NEW JERSEY RIGHT-TO-KNOW:

The following materials are non-hazardous, but are among the top five components in this product:

----- CHEMICAL NAME -----	CAS NUMBER
PHTHALATE PLASTICIZER	UNKNOWN

PENNSYLVANIA RIGHT-TO-KNOW:

The following non-hazardous ingredients are present in the product at greater than 3%:

----- CHEMICAL NAME -----	CAS NUMBER
PHTHALATE PLASTICIZER	UNKNOWN

CALIFORNIA PROPOSITION 65:

WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

----- CHEMICAL NAME -----	CAS NUMBER
No Proposition 65 chemicals exist in this product.	

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: F

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| SECTION 16 - OTHER INFORMATION |
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HMIS RATINGS - HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 4

VOLATILE ORGANIC COMPOUNDS (VOCS): 0.00 lbs/gal, 0 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

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The information contained on this MSDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to comply with all Federal, State and Local

Regulations.

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<END OF MSDS>