

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

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : MH-1 HARDENER
 IDENTIFICATION NUMBER: MH-1HARD000B PREPARE / REVISED: 08/07/06
 PRODUCT USE/CLASS : ORGANIC PEROXIDE

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

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % LESS THAN
01	DICYCLOHEXYL PHTHALATE	84-61-7	55.0 %
02	BENZOYL PEROXIDE	94-36-0	55.0 %

ITEM	EXPOSURE LIMITS					
	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING	COMPANY TLV-TWA	SKIN
01	NE	NE	NE	NE	NE	NO
02	5mg/M3	NO INFO	5mg/M3	NO INFO	NE	NO

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: DANGER!---ORGANIC PEROXIDE. HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. KEEP AWAY FROM ALL SOURCES OF IGNITION. STORE OUT OF DIRECT SUNLIGHT IN A COOL, WELL VENTILATED AREA. COMBUSTIBLE.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: MILD EYE IRRITANT.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: MILD SKIN IRRITANT.

EFFECTS OF OVEREXPOSURE - INHALATION: PRODUCT IS NOT EXPECTED TO BE A MAJOR INHALATION HAZARD.

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SECTION 3 - HAZARDS IDENTIFICATION
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EFFECTS OF OVEREXPOSURE - INGESTION: THIS PRODUCT HAS A LOW ORDER ORAL TOXICITY.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: PREEEXISTING SKIN AND EYE DISORDERS MAY BE AGGRAVATED BY THIS PRODUCT.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT 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.

FIRST AID - INGESTION: IF SWALLOWED, CALL A PHYSICIAN IMMEDIATELY. REMOVE CONTENTS OF STOMACH ONLY AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GIVE VICTIM PLENTY OF WATER TO DRINK IF CONSCIOUS.

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SECTION 5 - FIRE FIGHTING MEASURES
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FLASH POINT: N.A.

LOWER EXPLOSIVE LIMIT: N.A.

UPPER EXPLOSIVE LIMIT: N.A.

AUTOIGNITION TEMPERATURE: NA

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: HAZARDOUS CONDITIONS WILL RESULT THROUGH CONTAMINATION WITH INCOMPATIBLES OR EXPOSURE TO EXCESSIVE HEAT. TOXIC FUMES MAY BE PRODUCED IF THIS PRODUCT IS INVOLVED IN A FIRE.

SPECIAL FIREFIGHTING PROCEDURES: EVACUATE AREA. WATER MAY BE INEFFECTIVE 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: WEAR ALL APPROPRIATE SAFETY EQUIPMENT WHILE HANDLING SPILLS. USE NON-SPARKING

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SECTION 6 - ACCIDENTAL RELEASE MEASURES
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TOOLS. IF PRODUCT IS UNCONTAMINATED, SCRAPE UP FOR REUSE. IF PRODUCT IS CONTAMINATED, SCRAPE UP USING NON-SPARKING TOOLS. PLACE IN A SUITABLE CONTAINER FOR PROPER DISPOSAL.

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SECTION 7 - HANDLING AND STORAGE
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HANDLING: AVOID CONTACT WITH EYES AND SKIN. FOR INDUSTRIAL USE ONLY. WEAR APPROPRIATE SAFETY EQUIPMENT WHEN HANDLING. MATERIAL CAN ACCUMULATE STATIC CHARGES. GROUNDING CONTAINERS WHEN TRANSFERRING OR POURING IS RECOMMENDED.

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. TO INSURE PRODUCT QUALITY, STORAGE TEMPERATURE SHOULD NOT EXCEED 77 F. TO INSURE AGAINST POSSIBLE EXOTHERMIC SELF-ACCELERATING DECOMPOSITION, STORAGE TEMPERATURE MUST NEVER EXCEED 131 F.

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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	: PEROXIDE	ODOR THRESHOLD	: NA
APPEARANCE	: WHITE POWDER	EVAPORATION RATE	: Is slower than Ether
SOLUBILITY IN H2O	: INSOLUBLE		
FREEZE POINT	: NA	SPECIFIC GRAVITY	: 1.28
VAPOR PRESSURE	: NA	pH @ 0.0 %	: NA
PHYSICAL STATE	: SOLID	VISCOSITY	: NA

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| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES |
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COEFFICIENT OF WATER/OIL DISTRIBUTION: NA

(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. THE SADT FOR THIS PRODUCT IS >140 F. AT NO TIME SHOULD THE PRODUCT BE EXPOSED TO TEMPERATURES ABOVE 131 F.

INCOMPATIBILITY: STRONG OXIDANTS. STRONG ACIDS. STRONG ALKALIS. HEAVY METALS. REDUCING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: BURNING WILL PRODUCE TOXIC FUMES. OXIDES OF CARBON. BIPHENYL (TLV .2 PPM).

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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PRODUCT LD50: 5000 mg/kg PRODUCT LC50: 24 ppm

COMPONENT TOXICOLOGICAL INFORMATION:

----- CHEMICAL NAME -----	----- LD50 -----	----- LC50 -----
DICYCLOHEXYL PHTHALATE	NO INFO	NO INFO
BENZOYL PEROXIDE	>5000mg/kg ORAL RT	>24mg/l 4HR RAT

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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 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 14 - TRANSPORTATION INFORMATION |
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DOT PROPER SHIPPING NAME: ORGANIC PEROXIDE TYPE D, SOLID

DOT TECHNICAL NAME: DIBENZOYL PEROXIDE 50%

DOT HAZARD CLASS: 5.2 HAZARD SUBCLASS: NA

DOT UN/NA NUMBER: UN3106 PACKING GROUP: II RESP. GUIDE PAGE: 145

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| SECTION 15 - REGULATORY INFORMATION |
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THE FOLLOWING COMPONENTS ARE NOT SUBJECT TO REPORTING IN SECTION 2:

----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN
No non-hazardous components exist

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD FIRE HAZARD

SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

----- CHEMICAL NAME ----- CAS NUMBER WT/WT % IS LESS THAN
BENZOYL PEROXIDE 94-36-0 55.0 %

TOXIC SUBSTANCES CONTROL ACT:

The chemical substances in this product are on the TSCA Section 8 Inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

----- CHEMICAL NAME ----- CAS NUMBER
No information is available.

U.S. STATE REGULATIONS: AS FOLLOWS -

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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:

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----- CHEMICAL NAME ----- CAS NUMBER
No non-hazardous materials are among the top five ingredients.

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PENNSYLVANIA RIGHT-TO-KNOW:

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

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----- CHEMICAL NAME ----- CAS NUMBER
No non-hazardous ingredients are present at greater than 3%.

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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:

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

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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: No information available.

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|                               SECTION 16 - OTHER INFORMATION                               |
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HMIS RATINGS - HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 1

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>