

MATERIAL SAFETY DATA SHEET

MODEL-PRO "A"
 ALTERNATIVE TO OSHA-20 FORM
 Manufactured by:
 SPECIALTY RESIN

EMERGENCY INFORMATION
DAY: (269) 462-9256
NIGHT: (269) 487-0079
Poison Hotline: 1-800-222-1222

SECTION I - PRODUCT IDENTIFICATION

TRADE NAME AND SYNONYMS: MODEL-PRO [PART A]
 CHEMICAL FAMILY: POLYMETHYLENE POLYPHENYL ISOCYANATE SOLUTION
 FORMULA: PROPRIETARY COMPLEX MIXTURE * TRADE SECRET

SECTION II - INGREDIENTS

[NOTE: SEE FINAL PAGE FOR DEFINITIONS OF ABBREVIATIONS AND SYMBOLS.]
 THIS MATERIAL DATA SHEET IS PREPARED TO COMPLY WITH UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS). UNLISTED INGREDIENTS ARE BELOW SPECIFIED REPORTING LEVELS AND/OR ARE NOT HAZARDOUS PER THE OSHA STANDARD AND/OR ARE NOT FOUND ON THE WHMIS INGREDIENT DISCLOSURE LIST.

METHYLENE BISPHENYL ISOCYANATE (MDI) CAS# 101-68-8 40% TLV UNITS .02 PPM
 (VAPOR PRESSURE <.0001 mmHg @ 25 DEGREES C.)

SKIN ABSORPTION MAY CONTRIBUTE TO THE OVERALL EXPOSURE TO THIS MATERIAL. TAKE APPROPRIATE MEASURES TO PREVENT ABSORPTION.

PROPRIETARY MIXTURE * TRADE SECRET

C.A.S. NOS. AVAILABLE ON ALL APPLICABLE INGREDIENTS ON AN EMERGENCY BASIS.

THE MIXTURE CONTAINS NO KNOWN CARCINOGENS.

SECTION III - PHYSICAL DATA

BOILING POINT: >500 DEGREES F.
 VAPOR PRESSURE: <.001 mmHg @ 25 DEGREES C.
 VAPOR DENSITY: (AIR=1) APPROXIMATELY 9.0
 SPECIFIC GRAVITY: (WATER =1) 1.1
 SOLUBILITY IN WATER: REACTS WITH WATER
 PERCENT VOLATILE BY VOLUME: NIL
 EVAPORATION RATE: (BUTYL ACETATE = 1) NIL
 APPEARANCE AND ODOR: CLEAR TAN LIQUID, SLIGHT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >230 DEGREES F COC.
 FLAMMABLE LIMITS: N.E.
 EXTINGUISHING MEDIA: USE TYPE ABC EXTINGUISHER
 SPECIAL FIRE-FIGHTING PROCEDURE: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND NORMAL PROTECTIVE TURNOUT CLOTHING.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: AVOID WATER CONTAMINATION IN CLOSED CONTAINERS OR CONFINED AREAS. (CARBON DIOXIDE EVOLVED - EXOTHERMIC, DANGEROUS PRESSURE CAN DEVELOP.)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: .02 PPM ON MDI, MIXTURE N.E.

EFFECTS OF ACUTE EXPOSURE:

EYES - MAY CAUSE TEARING

SKIN - MINOR IRRITATION MAY OCCUR

INHALATION - BREATHLESSNESS, SEVERE COUGHING, CHEST DISCOMFORT

INGESTION - ORAL LD50 FOR RATS IS >15000 MG/KG ON MDI.

EFFECTS OF CHRONIC EXPOSURE: NONE KNOWN

NOTE: SMALL % OF POPULATION MAY DEVELOP ALLERGIC SENSITIVITY LEADING TO

ASTHMA-LIKE SYMPTOMS ON SUBSEQUENT EXPOSURES BELOW THE TLV OF MDI.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES; CONTACT PHYSICIAN

SKIN - WASH WITH SOAP AND WATER.

INGESTION: DO NOT INDUCE VOMITING. FLUSH MOUTH WITH WATER.

GIVE ONE GLASS OF WATER TO DRINK, CONTACT PHYSICIAN IMMEDIATELY.

IF ANY IRRITATION OR OTHER SYMPTOMS PERSIST, SEE A PHYSICIAN.

SECTION VI - CHEMICAL REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID: AVOID TEMPERATURES ABOVE 120 DEGREES F.

INCOMPATIBILITY (MATERIALS TO AVOID) : WATER, BASES AND ACIDS, ALCOHOLS

HAZARDOUS DECOMPOSITION PRODUCTS: @ 500 DEGREES F. - CARBON MONOXIDE, NITROGEN OXIDES, TRACES OF HYDROGEN CYANIDE.

HAZARDOUS POLYMERIZATION: MAY OCCUR

CONDITIONS TO AVOID: CONTAMINATION BY MOISTURE, CONTAMINATED CONTAINERS SHOULD BE LEFT VENTED

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN: ABSORB ON ABSORBENT MATERIAL.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT DISCHARGE INTO PUBLIC WATERWAYS OR SEWERS.

SECTION VIII - SPECIAL PROTECTION AND PROCEDURES

RESPIRATORY PROTECTION: USE NIOSH APPROVED EQUIPMENT IF AIRBORNE EXPOSURE IS EXCESSIVE.

VENTILATION: FACE VELOCITY - 60 FPM; USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE EQUIPMENT: CHEMICAL RESISTANT PROTECTIVE GLOVES; FOR EYE AND FACE PROTECTION A FACE SHIELD IS RECOMMENDED. A CHEMICAL RESISTANT APRON AND OTHER PROTECTIVE GEAR MAY BE USED AS NEEDED TO REDUCE CHANCES OF CONTACT.

SECTION IX - SPECIAL PRECAUTIONS

HANDLING AND STORAGE; USE GOOD HYGIENE AND SAFETY PRACTICES EMPLOYED WITH ANY CHEMICAL.

WORKPLACE: PRACTICE GOOD HOUSEKEEPING. CLEAN UP SPILLS PROMPTLY.

PERSONAL HYGIENE: WASH WITH SOAP AND WATER BEFORE EATING, AFTER EACH SHIFT, OR AFTER ANY POSSIBLE CONTACT WITH PRODUCT. LAUNDRY WORK CLOTHES FREQUENTLY.

NPCA HMIS RATING: HEALTH 2; FLAMMABILITY 1; REACTIVITY 1; PERSONAL PROTECTION F.

SECTION X - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: DIPHENYLMETHANE - 4,4'- DIISOCANATE

DOT HAZARD CLASS: NON-REGULATED

IMO / IMDG HAZARD CLASS: NON-REGULATED

ICAO / IATA HAZARD CLASS: NON-REGULATED

SECTION XI - REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL APPLICABLE INGREDIENTS ARE ON THE TSCA CHEMICAL SUBSTANCE INVENTORY.

CERCLA AND SARA REGULATIONS (40 CFR 355, 370, & 372): SECTION 313 SUPPLIER NOTIFICATION. THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372: 40% MDI LISTED AS METHYLENE BIS(PHENYLISOCYANATE) MBI CAS NO. 101-68-8

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 CONDITIONS, TO MEET THE FOLLOWING CATEGORIES: AN IMMEDIATE HEALTH HAZARD, A DELAYED HEALTH HAZARD, A REACTIVE HAZARD

WHMIS INFORMATION: THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION FOR THIS PRODUCT IS D1A, D2A, D2B

THE INFORMATION IN THIS DATA SHEET HAS BEEN ASSEMBLED BY THE MANUFACTURER BASED ON ITS OWN STUDIES AND ON THE WORK OF OTHERS. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, OR ADEQUACY OF THE INFORMATION CONTAINED HEREIN. THE MANUFACTURER SHALL NOT BE LIABLE (REGARDLESS OF FAULT) TO THE VENDEE, THE VENDEE'S EMPLOYEES, OR ANYONE FOR ANY DIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE ACCURACY COMPLETENESS, ADEQUACY, OR FURNISHING OF SUCH INFORMATION.

SYMBOLS AND ABBREVIATIONS

N.A.: NOT APPLICABLE N.E.: NOT ESTABLISHED >: GREATER THAN <: LESS THAN

FPM: FEET PER MINUTE

C.A.S. NO.: CHEMICAL ABSTRACT SERVICE NUMBER

TLV: THRESHOLD LIMIT VALUE (UNITS)

PPM: PARTS PER MILLION

mmHg: MILLIMETERS OF MERCURY

NIOSH: NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

NPCA: NATIONAL PAINT & COATINGS ASSOCIATION

HMIS: HAZARDOUS MATERIAL IDENTIFICATION SYSTEM

COC: CLEVELAND OPEN CUP

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 Manufactured by:
 SPECIALTY RESIN

EMERGENCY INFORMATION
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NIGHT: (269) 487-0079
Poison Hotline: 1-800-222-1222

SECTION I - PRODUCT IDENTIFICATION

TRADE NAME AND SYNONYMS: MODEL-PRO [PART B]
 CHEMICAL FAMILY: POLYETHER POLYOL SOLUTION
 FORMULA: PROPRIETARY COMPLEX MIXTURE * TRADE SECRET

SECTION II - INGREDIENTS

[NOTE:] SEE FINAL PAGE OF MSDS FOR DEFINITIONS OF ABBREVIATIONS AND SYMBOLS.]
 THIS MATERIAL DATA SHEET IS PREPARED TO COMPLY WITH UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) AND THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS). UNLISTED INGREDIENTS ARE BELOW SPECIFIED REPORTING LEVELS AND/OR ARE NOT HAZARDOUS PER THE OSHA STANDARD AND/OR ARE NOT FOUND ON THE WHMIS INGREDIENT DISCLOSURE LIST.

PROPRIETARY MIXTURE * TRADE SECRET

C.A.S. NO.S AVAILABLE ON ALL INGREDIENTS ON AN EMERGENCY BASIS.

THE MIXTURE CONTAINS NO KNOWN CARCINOGENS.

SECTION III - PHYSICAL DATA

BOILING POINT: >500 DEGREES F.
 VAPOR PRESSURE: <.001 mmHg @ 25 DEGREES C.
 VAPOR DENSITY: (AIR=1) 9.5
 SPECIFIC GRAVITY: (WATER =1) 1.0
 SOLUBILITY IN WATER: 30-50%
 PERCENT VOLATILE BY VOLUME: NIL
 EVAPORATION RATE: <BUTYL ACETATE = 1 > NIL
 APPEARANCE AND ODOR: TRANSLUCENT LIQUID, SLIGHT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >230 DEGREES F. COC
 FLAMMABLE LIMITS: N.E.
 EXTINGUISHING MEDIA: USE TYPE ABC EXTINGUISHER
 SPECIAL FIRE-FIGHTING PROCEDURE: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN ADDITION TO NORMAL PROTECTIVE TURNOUT CLOTHING.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: N.E.
 EFFECTS OF ACUTE EXPOSURE:
 EYES - MAY CAUSE TEARING
 SKIN - MINOR IRRITATION MAY OCCUR
 INGESTION - N.E.
 INHALATION - N.E.
 EFFECTS OF CHRONIC EXPOSURE: NONE KNOWN

EMERGENCY AND FIRST AID PROCEDURES:

EYES: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES; CONTACT PHYSICIAN.

SKIN: WASH WITH SOAP AND WATER.

INGESTION: DO NOT INDUCE VOMITING, GIVE ONE GLASS OF WATER; CONTACT PHYSICIAN IMMEDIATELY.

INHALATION: REMOVE FROM CONTAMINATED AREA; ADMINISTER OXYGEN.

IF ANY IRRITATION OR OTHER SYMPTOMS PERSIST, SEE A PHYSICIAN.

SECTION VI - CHEMICAL REACTIVITY

STABILITY: STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID: AVOID TEMPERATURES ABOVE 120 DEGREES F.

INCOMPATIBILITY (MATERIALS TO AVOID): N.E.

HAZARDOUS DECOMPOSITION PRODUCTS: SMOKE, FUMES, CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: NONE KNOWN

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN: ABSORB ON ABSORBENT MATERIAL.

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. DO NOT DISCHARGE INTO PUBLIC WATERWAYS OR SEWERS.

SECTION VIII - SPECIAL PROTECTION AND PROCEDURES

RESPIRATORY PROTECTION: USE NIOSH APPROVED EQUIPMENT IF AIRBORNE EXPOSURE IS EXCESSIVE.

VENTILATION: FACE VELOCITY - 60 FPM; USE ONLY WITH ADEQUATE VENTILATION.

PROTECTIVE EQUIPMENT: CHEMICAL RESISTANT PROTECTIVE GLOVES; FOR EYE AND FACE PROTECTION A FACE SHIELD IS RECOMMENDED. A CHEMICAL RESISTANT APRON AND OTHER PROTECTIVE GEAR MAY BE USED AS NEEDED TO REDUCE CHANCES OF CONTACT.

SECTION XI - SPECIAL PRECAUTIONS

HANDLING AND STORAGE: USE GOOD HYGIENE AND SAFETY PRACTICES EMPLOYED WITH ANY INDUSTRIAL CHEMICAL.

WORKPLACE: PRACTICE GOOD HOUSEKEEPING, CLEAN UP SPILLS PROMPTLY.

PERSONAL HYGIENE: WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, AFTER EACH SHIFT, OR AFTER ANY POSSIBLE CONTACT WITH PRODUCT. LAUNDRY WORK CLOTHES FREQUENTLY.

NPCA HMIS RATING: HEALTH 2; FLAMMABILITY 1; REACTIVITY 1; PERSONAL PROTECTION F.

SECTION X - TRANSPORTATION INFORMATION

DOT HAZARD CLASS: NON-REGULATED

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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 CONDITIONS, TO MEET THE FOLLOWING CATEGORIES: AN IMMEDIATE HEALTH HAZARD

WHMIS INFORMATION: THE CANADIAN WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) CLASSIFICATION FOR THIS PRODUCT IS UNDETERMINED.

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