



PRODUCT IDENTIFIER: 10 MIN MENDER
DATE AND VERSION: 1 APRIL 2022 VERSION 1.0

SAFETY DATA SHEET (SDS)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: 10 MIN MENDER
OTHER MEAN OF IDENTIFICATION: MVP COATINGS 10 MIN MENDER
RECOMMENDED USE: CRACK MENDER FOR CONCRETE
MANUFACTURED FOR: MVP COATINGS, INC.
5913 E WASHINGTON BLVD
LOS ANGELES, CA 90040
E-MAIL ADDRESS: ORDERTEAM@COATINGSHUB.COM
TELEPHONE NUMBER: (833) 326-2848
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EMERGENCY TELEPHONE NUMBER:

24-HOUR EMERGENCY TELEPHONE NUMBER: CHEM-TREC 800-424-9300

SECTION 2: HAZARDOUS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

RESPIRATORY OR SKIN SENSITIZATION, 1 RESPIRATORY
RESPIRATORY OR SKIN SENSITIZATION, 1 SKIN
SKIN CORROSION/IRRITATION, 2
CARCINOGENICITY, 2
SERIOUS EYE DAMAGE/EYE IRRITATION, 2 A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE, 3
ACUTE TOXICITY, 5 ORAL

LABEL ELEMENTS: PICTOGRAM



SIGNAL WORD: DANGER

HAZARD STATEMENTS:

H334 - MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED
H317 - MAY CAUSE AN ALLERGIC SKIN REACTION
H315 - CAUSES SKIN IRRITATION
H351 - SUSPECTED OF CAUSING CANCER.
H319 - CAUSES SERIOUS EYE IRRITATION
H336 - MAY CAUSE DROWSINESS OR DIZZINESS
H303 - MAY BE HARMFUL IF SWALLOWED

HAZARD DESCRIPTION:

P101 - IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND.
P102 - KEEP OUT OF REACH OF CHILDREN.
P103 - READ LABEL BEFORE USE.

PRECAUTIONARY STATEMENTS – PREVENTION

P201 - OBTAIN SPECIAL INSTRUCTIONS BEFORE USE.
P202 - DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD.
P210 - KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES.
P260 - DO NOT BREATHE DUST/ FUME/ GAS/ MIST/ VAPOURS/ SPRAY.
P270 - DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT.
P273 - AVOID RELEASE TO THE ENVIRONMENT.



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P280 - WEAR PROTECTIVE GLOVES.
P281 - USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.
P284 - WEAR RESPIRATORY PROTECTION.

PRECAUTIONARY STATEMENTS – RESPONSE:

P301 + P310 - IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER/DOCTOR
P305 + P351 + P338 - IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.
P310 - IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.
P331 - DO NOT INDUCE VOMITING.
P378 - USE SUITABLE MEDIA TO EXTINGUISH.
P391 - COLLECT SPILLAGE.

PRECAUTIONARY STATEMENTS – STORAGE

P403+P233 STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED.
P405 STORE IN A LOCKED PLACE.

PRECAUTIONARY STATEMENTS – DISPOSAL:

P501 DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATION
P502 PLEASE REFER TO THE INFORMATION PROVIDED BY THE MANUFACTURER / SUPPLIER ON RECYCLING AND RECYCLING EXAMPLES.

OTHER HAZARDS WHICH DO NOT RESULT IN CLASSIFICATION (NFPA CLASSIFICATION)

ROUTE OF ENTRY:

EYES; INGESTION; INHALATION; SKIN;

TARGET ORGANS:

RESPIRATORY SYSTEM; SKIN; EYES;

INHALATION:

AT ROOM TEMPERATURE, MDI VAPORS ARE MINIMAL DUE TO LOW VAPOR PRESSURE. MAY CAUSE RESPIRATORY SENSITIZATION WITH ASTHMA-LIKE SYMPTOMS IN SUSCEPTABLE INDIVIDUALS. IMPAIRED LUNG FUNCTION HAS BEEN ASSOCIATED WITH OVEREXPOSURE TO ISOCYANATES. MDI CONCENTRATIONS BELOW THE EXPOSURE GUIDELINES MAY CAUSE ALLERGIC RESPIRATORY REACTIONS IN INDIVIDUALS ALREADY SENSITIZED. HEATING, SPRAYING, FOAMING OR OTHERWISE MECHANICALLY DISPERSING OPERATIONS MAY GENERATE VAPOR OR AEROSOL CONCENTRATIONS SUFFICIENT TO CAUSE IRRITATION OR OTHER ADVERSE EFFECTS.

SKIN CONTACT:

PROLONGED OR REPEATED EXPOSURE CAN CAUSE SKIN IRRITATION, REDDENING, DERMATITIS AND IN SOME CASES SENSITIZATION. SKIN CONTACT MAY RESULT IN ALLERGIC REACTIONS OR RESPIRATORY SENSITIZATION, BUT IT IS NOT EXPECTED TO RESULT IN ABSORPTION OF AMOUNTS SUFFICIENT TO CAUSE OTHER ADVERSE EFFECTS. MAY STAIN SKIN.

EYE CONTACT:

AS A LIQUID OR DUST, MAY CAUSE IRRITATION, INFLAMMATION, AND/OR DAMAGE TO SENSITIVE EYE TISSUE. SYMPTOMS INCLUDE WATERING OR DISCOMFORT OF THE EYES. CORNEAL INJURY IS UNLIKELY. AS A LIQUID OR DUST, MAY CAUSE IRRITATION, INFLAMMATION, AND/OR DAMAGE TO SENSITIVE EYE TISSUE. SYMPTOMS INCLUDE WATERING OR DISCOMFORT OF THE EYES. CORNEAL INJURY IS UNLIKELY.

INGESTION:

SINGLE DOSE ORAL EXPOSURE IS LOW. CAN RESULT IN IRRITATION AND CORROSIVE ACTION IN THE MOUTH, THROAT AND DIGESTIVE TRACT.



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SECTION 3: CHEMICAL COMPOSITION

CAS NUMBER	CONTENT WEIGHT	CHEMICAL NAME
9016-87-9	45% - 65%	ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER
101-68-8	15% - 55%	4,4'-METHYLENEDIPHENYL DIISOCYANATE
26447-40-5	0% - 20%	BENZENE, 1,1'- METHYLENEBIS[ISOCYANATO-
39310-05-9	0% - 7%	BENZENE, 1,1' -METHYLENEBIS[ISOCYANATO- ,HOMOPOLYMER
THE SPECIFIC CHEMICAL IDENTITY AND/OR EXACT PERCENTAGE (CONCENTRATION) OF COMPOSITION HAS BEEN WITHHELD TO PROTECT CONFIDENTIALITY.		

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE:

REMOVE CONTAMINATED CLOTHING

IF INHALED:

REMOVE SOURCE OF EXPOSURE OR MOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING. IF EXPERIENCING RESPIRATORY SYMPTOMS: CALL A POISON CENTER/DOCTOR. IF BREATHING IS DIFFICULT, TRAINED PERSONNEL SHOULD ADMINISTER EMERGENCY OXYGEN IF ADVISED TO DO SO BY THE POISON CENTER/DOCTOR.

IF EXPOSED/FEEL UNWELL/CONCERNED: CALL A POISON CENTER/DOCTOR.

ELIMINATE ALL IGNITION SOURCES IF SAFE TO DO SO.

IF ON THE SKIN:

WASH OFF WITH SOAP AND WATER FOR MORE THAN 15 MINUTES. AND TAKE MEDICAL ASSISTANT IMMEDIATELY. IF SYMPTOMS LIKE IRRITATION OR PAIN OCCURS, TAKE MEDICAL ASSISTANT IMMEDIATELY. REMOVE EXPOSED CLOTHING, AND WASH OFF EXPOSED AREA WITH SOAP AND WATER.

IF IN THE EYES:

RINSE EYES CAUTIOUSLY WITH LUKEWARM, GENTLY FLOWING WATER FOR SEVERAL MINUTES, WHILE HOLDING THE EYELIDS OPEN. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING FOR 15-20 MINUTES. TAKE CARE NOT TO RINSE CONTAMINATED WATER INTO THE UNAFFECTED EYE OR ONTO THE FACE. IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.

IF SWALLOWED:

RINSE MOUTH. DO NOT INDUCE VOMITING. GIVE 1 OR 2 GLASSES OF MILK OR WATER TO DRINK AND GET MEDICAL ATTENTION/ADVICE. IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION. MAY REQUIRE GASTRIC LAVAGE.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

USE DRY CHEMICAL, FOAM, CARBON DIOXIDE, OR HALOGENATED AGENTS. IF WATER IS USED, USE VERY LARGE QUANTITIES. THE REACTION BETWEEN WATER AND HOT ISOCYANATE MAY BE VIGOROUS. IF POSSIBLE, CONTAIN FIRE RUN-OFF WATER. WEAR POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS WITH FULL FACE MASK AND FULL PROTECTIVE CLOTHING.



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UNSUITABLE EXTINGUISHING MEDIA:

AT TEMPERATURES GREATER THAN 400°F, POLYMERIC MDI CAN POLYMERIZE AND DECOMPOSE WHICH WILL CAUSE PRESSURE BUILD-UP IN CLOSED CONTAINERS. EXPLOSIVE RUPTURE IS POSSIBLE. WATER CONTAMINATION WILL PRODUCE CARBON DIOXIDE. DO NOT RESEAL CONTAMINATED CONTAINERS AS PRESSURE BUILDUP MAY RUPTURE THE CONTAINERS. DOWNWIND PERSONNEL MUST BE EVACUATED.

HAZARDS DURING FIRE-FIGHTING:

EXCESSIVE PRESSURE OR TEMPERATURE MAY CAUSE EXPLOSIVE RUPTURE OF CONTAINERS.

WATER CONTAMINATION WILL PRODUCE CARBON DIOXIDE. DO NOT RESEAL CONTAMINATED CONTAINERS AS PRESSURE BUILDUP MAY RUPTURE THEM.

ADVICE FOR FIRE-FIGHTERS:

ISOLATE IMMEDIATE HAZARD AREA AND KEEP UNAUTHORIZED PERSONNEL OUT. STOP SPILL/RELEASE IF IT CAN BE DONE SAFELY. MOVE UNDAMAGED CONTAINERS FROM IMMEDIATE HAZARD AREA IF IT CAN BE DONE SAFELY. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND TO PROTECT PERSONNEL. WATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION SHOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHING MAY OCCUR, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

DISPOSE OF FIRE DEBRIS AND CONTAMINATED EXTINGUISHING WATER IN ACCORDANCE WITH OFFICIAL REGULATIONS.

SPECIAL PROTECTIVE ACTIONS:

WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IN POSITIVE PRESSURE MODE WITH FULL-FACE PIECE. BOOTS, GLOVES (NEOPRENE), GOOGLES, AND FULL PROTECTIVE CLOTHING ARE ALSO REQUIRED.

CARE SHOULD ALWAYS BE EXERCISED IN DUST/MIST AREAS.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA).

DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL.

ISOLATE HAZARD AREA AND KEEP UNNECESSARY PEOPLE AWAY. REMOVE ALL POSSIBLE SOURCES OF IGNITION IN THE SURROUNDING AREA. NOTIFY AUTHORITIES IF ANY EXPOSURE TO THE GENERAL PUBLIC OR THE ENVIRONMENT OCCURS OR IS LIKELY TO OCCUR.

COVER THE AREA WITH AN INERT ABSORBENT MATERIAL SUCH AS CLAY OR VERMICULITE AND TRANSFER TO METAL WASTE CONTAINERS. MOVE CONTAINER TO A WELL-VENTILATED AREA (OUTSIDE), BUT DO NOT SEAL THE CONTAINER WITH THE ISOCYANATE MIXTURE.

LARGER QUANTITIES OF LIQUID MAY BE TRANSFERRED DIRECTLY TO DRUMS FOR DISPOSAL. DECONTAMINATE OR DISCARD ALL CLEAN-UP EQUIPMENT.

CLEAN UP:

THE AREA SHOULD THEN BE FLUSHED WITH A DECONTAMINATION SOLUTION. THE DECONTAMINATION SOLUTION IS A 5-10% MIXTURE OF SODIUM CARBONATE AND 0.5% LIQUID DETERGENT IN WATER SOLUTION OR A 3-8% CONCENTRATED AMMONIUM HYDROXIDE AND 0.5% LIQUID DETERGENT IN WATER. USE 10 PARTS DECONTAMINATION SOLUTION TO 1 PART SPILLED MATERIAL. IF THE AMMONIUM HYDROXIDE SOLUTION IS USED, AMMONIA WILL BE EVOLVED AS A VAPOR. USE CAUTION TO AVOID EXPOSURE TO HIGH CONCENTRATIONS OF AMMONIA. ALLOW SPILL CLEAN UP TO VENT FOR 48 HOURS LETTING EVOLVED CARBON DIOXIDE TO ESCAPE.

RECOMMENDED EQUIPMENT:

GAS MASK FOR ORGANIC GASES, OTHER APPROPRIATE PROTECTIVE DEVICE /CLOTHING / GLOVES.

PERSONAL PRECAUTIONS:

AVOID BREATHING VAPORS. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIALS UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING.



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ENVIRONMENTAL PRECAUTIONS:

STOP SPILL/RELEASE IF IT CAN BE DONE SAFELY. PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED DRAINAGE SYSTEMS AND NATURAL WATERWAYS BY USING SAND, EARTH, OR OTHER APPROPRIATE BARRIERS.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

USE PERSONAL PROTECTIVE EQUIPMENT WHEN TRANSFERRING MATERIAL TO OR FROM DRUMS, TOTES OR OTHER CONTAINERS. THE REACTION OF POLYOLS AND ISOCYANATES GENERATES HEAT. CONTACT OF THE REACTING MATERIALS WITH SKIN OR EYES CAN CAUSE IRRITATION AND MAY BE DIFFICULT TO REMOVE FROM THE AFFECTED AREAS. IMMEDIATELY WASH AFFECTED AREAS WITH PLENTY OF WATER AND SEEK MEDICAL ATTENTION. IN ADDITION, SUCH CONTACT INCREASES THE RISK OF EXPOSURE TO ISOCYANATE VAPORS. DO NOT SMOKE OR USE NAKED LIGHTS, OPEN FLAMES, SPACE HEATERS, OR OTHER IGNITION SOURCES NEAR POURING, FROTHING OR SPRAYING OPERATIONS.

VENTILATION REQUIREMENTS:

USE ONLY WITH ADEQUATE VENTILATION TO CONTROL AIR CONTAMINANTS TO THEIR EXPOSURE LIMITS. THE USE OF LOCAL VENTILATION IS RECOMMENDED TO CONTROL EMISSIONS NEAR THE SOURCE.

CONDITIONS FOR SAFE STORAGE:

WHEN STORED BETWEEN 60°-85° F IN SEALED CONTAINERS, TYPICAL SHELF LIFE IS 6 MONTHS OR MORE FROM THE DATE OF MANUFACTURE. CONSULT TECHNICAL DATA SHEET FOR SHELF LIFE REQUIREMENTS AFFECTING PERFORMANCE QUALITY. SHOULD FREEZING OCCUR, THE MATERIAL MUST BE THAWED COMPLETELY AND MIXED UNTIL UNIFORM. OPENED CONTAINERS MUST BE HANDLED PROPERLY TO PREVENT MOISTURE PICKUP..

USE NON-SPARKING VENTILATION SYSTEMS, APPROVED EXPLOSION-PROOF EQUIPMENT AND INTRINSICALLY SAFE ELECTRICAL SYSTEMS IN AREAS WHERE THIS PRODUCT IS USED AND STORED.

KEEP LIQUID AND VAPORS AWAY FROM SPARKS AND FLAME, STORE IN CONTAINERS ABOVE GROUND AND SURROUNDED BY DIKES TO CONTAIN SPILLS OR LEAKS. DO NOT CUT, DRILL, GRIND, WELD, OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION:

FACE SHIELD AND SAFETY GLASSES USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).

SKIN PROTECTION:

HANDLE WITH GLOVES. GLOVES MUST BE INSPECTED PRIOR TO USE. USE PROPER GLOVE REMOVAL TECHNIQUE (WITHOUT TOUCHING GLOVES OUTER SURFACE) TO AVOID SKIN CONTACT WITH THIS PRODUCT. DISPOSE OF CONTAMINATED GLOVES AFTER USE IN ACCORDANCE WITH APPLICABLE LAWS AND GOOD LABORATORY PRACTICES. WASH AND DRY HANDS. COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

RESPIRATORY PROTECTION:

WHERE RISK ASSESSMENT SHOWS AIR-PURIFYING RESPIRATORS ARE APPROPRIATE USE A FULL-FACE PARTICLE RESPIRATOR TYPE N100 (US) OR TYPE P3 (EN 143) RESPIRATOR CARTRIDGES AS A BACKUP TO ENGINEERING CONTROLS. IF THE RESPIRATOR IS THE SOLE MEANS OF PROTECTION, USE A FULL- FACE SUPPLIED AIR RESPIRATOR. USE RESPIRATORS AND COMPONENTS TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR CEN (EU).

APPROPRIATE ENGINEERING CONTROLS:

MDI HAS A LOW VAPOR PRESSURE AT ROOM TEMPERATURE. GENERAL/LOCAL VENTILATION TYPICALLY CONTROL VAPOR LEVELS VERY ADEQUATELY. USES REQUIRING HEATING AND/OR SPRAYING MAY REQUIRE MORE AGGRESSIVE ENGINEERING CONTROLS OR PPE. MONITORING IS REQUIRED TO DETERMINE ENGINEERING CONTROLS.



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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DENSITY:	9.40 LB/GAL
SPECIFIC GRAVITY:	1.1
VOC REGULATORY:	0.00 LB/GAL
VOC PART A & B COMBINED:	N/A
APPEARANCE:	NON PIGMENTED LIQUID
ODOR THRESHOLD:	MILD
ODOR DESCRIPTION:	MILD ODOR
PH:	N/A
SOLUBILITY IN WATER:	WATER INSOLUABLE - REACTS
FLAMMABILITY:	N/A
FLASH POINT SYMBOL:	N/A
FLASH POINT:	>350° F
VISCOSITY:	110 CPS
LOWER EXPLOSION LEVEL:	N/A
UPPER EXPLOSION LEVEL:	N/A
VAPOR PRESSURE:	N/A
FREEZING POINT:	N/A
MELTING POINT:	N/A
LOW BOILING POINT:	171° C
HIGH BOILING POINT:	N/A
AUTO IGNITION TEMP:	NDA
DECOMPOSITION POINT:	N/A
EVAPORATION RATE:	<1
COEFFICIENT WATER/OIL:	N/A

SECTION 10: STABILITY AND REACTIVITY

STABILITY:

POLYISOCYANATES ARE HIGHLY REACTIVE CHEMICALS AND SHOULD BE HANDLED AND STORED IN A WAY TO AVOID EXPOSURE TO MANY COMMON SUBSTANCES, INCLUDING WATER AND MOISTURE. MATERIAL IS STABLE WHEN STORED IN SEALED CONTAINERS UNDER NORMAL CONDITIONS. AVOID EXTENDED EXPOSURE OVER 110°F (45°C).

MATERIALS TO AVOID: ACIDS; ALCOHOLS; BASES; METAL COMPOUNDS; WATER

CONDITIONS TO AVOID: OXIDATION AGENTS, METALS AND COMBUSTABLE MATERIALS

HAZARDOUS REACTIONS/POLYMERIZATION: REACTIVITY: REACTS WITH WATER, ACIDS, BASES, ALCOHOLS, METAL COMPOUNDS. THE REACTION WITH WATER IS VERY SLOW UNDER 120°F (50°C), BUT IS ACCELERATED AT HIGHER TEMPERATURES AND IN THE PRESENCE OF ALKALIS, TERTIARY AMINES AND METAL COMPOUNDS. SOME REACTIONS CAN BE VIGOROUS OR EVEN VIOLENT.



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HAZARDOUS DECOMPOSITION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, NITROGEN OXIDES, TRACE AMOUNTS OF HYDROGEN CYANIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION 11: TOXOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER CAS#:(9016-87-9) [45-65%]

ACUTE TOXICITY:

ORAL LD50 NO DATA AVAILABLE

INHALATION LC50 LC50 INHALATION - RAT - 4 H - 0.49 MG/L

DERMAL LD50

OTHER INFORMATION ON ACUTE TOXICITY

SKIN CORROSION/IRRITATION: NO DATA AVAILABLE

SERIOUS EYE DAMAGE/EYE IRRITATION: NO DATA AVAILABLE

RESPIRATORY OR SKIN SENSITIZATION: MAY CAUSE ALLERGIC, RESPIRATORY AND SKIN REACTIONS

GERM CELL MUTAGENICITY: NO DATA AVAILABLE

CARCINOGENICITY:

IARC: 3 - GROUP 3: NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS (ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER)

ACGIH: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.

NTP: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

OSHA: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

REPRODUCTIVE TOXICITY: NO DATA AVAILABLE

TERATOGENICITY: NO DATA AVAILABLE

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (GLOBALLY HARMONIZED SYSTEM): INHALATION - MAY CAUSE RESPIRATORY IRRITATION.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (GLOBALLY HARMONIZED SYSTEM): NO DATA AVAILABLE

ASPIRATION HAZARD: NO DATA AVAILABLE

POTENTIAL HEALTH EFFECTS: INHALATION MAY BE FATAL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION.

INGESTION : HARMFUL IF SWALLOWED. SKIN : HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. EYES : CAUSES EYE IRRITATION.

SIGNS AND SYMPTOMS OF EXPOSURE: SALIVARY GLAND OBSTRUCTION, ALLERGIC DERMATITIS, RESPIRATORY DIFFICULTIES, BRONCHOCONSTRICTION,

(TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED)

SYNERGISTIC EFFECTS: NO DATA AVAILABLE

4,4'-METHYLENEDIPHENYL DIISOCYANATE CAS#:(101-68-8) [15-55%]

ACUTE TOXICITY:

ORAL LD50 ORAL - RAT - 4,700 MG/KG

INHALATION LC50 DERMAL LD50 NO DATA AVAILABLE

OTHER INFORMATION ON ACUTE TOXICITY

SKIN CORROSION/IRRITATION: SERIOUS EYE DAMAGE/EYE IRRITATION:

EYES - RABBIT - MODERATE EYE IRRITATION

RESPIRATORY OR SKIN SENSITIZATION: NO DATA AVAILABLE

MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTIONS



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GERM CELL MUTAGENICITY: LABORATORY EXPERIMENTS HAVE SHOWN MUTAGENIC EFFECTS.
GENOTOXICITY IN VITRO - HUMAN - LYMPHOCYTE SISTER CHROMATID EXCHANGE
GENOTOXICITY IN VIVO - RAT - INHALATION DNA DAMAGE

CARCINOGENICITY:

THIS PRODUCT IS OR CONTAINS A COMPONENT THAT IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY
BASED ON ITS IARC, ACGIH, NTP, OR EPA CLASSIFICATION.

LIMITED EVIDENCE OF CARCINOGENICITY IN ANIMAL STUDIES

IARC: 3 - GROUP 3: NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS (DIPHENYLMETHANE-4,4-DIISOCYANATE)

ACGIH: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS
IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY ACGIH.

NTP: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS
IDENTIFIED AS A KNOWN OR ANTICIPATED CARCINOGEN BY NTP.

OSHA: NO COMPONENT OF THIS PRODUCT PRESENT AT LEVELS GREATER THAN OR EQUAL TO 0.1% IS
IDENTIFIED AS A CARCINOGEN OR POTENTIAL CARCINOGEN BY OSHA.

REPRODUCTIVE TOXICITY: REPRODUCTIVE TOXICITY - RAT - INHALATION:

MATERNAL EFFECTS: OTHER EFFECTS. SPECIFIC DEVELOPMENTAL ABNORMALITIES: MUSCULOSKELETAL SYSTEM NO DATA
AVAILABLE

TERATOGENICITY: NO DATA AVAILABLE

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (GLOBALLY HARMONIZED SYSTEM):

MAY CAUSE RESPIRATORY IRRITATION.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE (GLOBALLY HARMONIZED SYSTEM): NO DATA AVAILABLE

ASPIRATION HAZARD: NO DATA AVAILABLE

POTENTIAL HEALTH EFFECTS: INHALATION MAY BE FATAL IF INHALED. CAUSES RESPIRATORY TRACT IRRITATION.

INGESTION MAY BE HARMFUL IF SWALLOWED. SKIN

MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CAUSES SKIN IRRITATION. EYES CAUSES EYE IRRITATION.

SIGNS AND SYMPTOMS OF EXPOSURE: COUGH, SHORTNESS OF BREATH, HEADACHE, NAUSEA, VOMITING, PULMONARY
EDEMA. EFFECTS MAY BE DELAYED.

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE: HIGH VAPOR CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM
(CNS) DEPRESSION AS EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS, AND NAUSEA. PERSONS WITH A PREEXISTING,
NONSPECIFIC BRONCHIAL HYPERACTIVITY CAN RESPOND TO CONCENTRATIONS BELOW THE TLV WITH SIMILAR SYMPTOMS AS WELL
AS ASTHMA ATTACK. EXPOSURE WELL ABOVE THE TLV MAY LEAD TO BRONCHITIS, BRONCHIAL SPASM AND PULMONARY EDEMA
(FLUID IN LUNGS). AS A RESULT OF PREVIOUS REPEATED OVEREXPOSURES OR A SINGLE LARGE DOSE, CERTAIN INDIVIDUALS MAY
DEVELOP ISOCYANATE SENSITIZATION (CHEMICAL ASTHMA) WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE TO
ISOCYANATE AT LEVELS WELL BELOW THE TLV. MAY CAUSE RESPIRATORY IRRITATION

SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE: CHRONIC OVEREXPOSURE TO CHEMICALS HAS ALSO BEEN REPORTED
TO CAUSE LUNG DAMAGE (INCLUDING DECREASE IN LUNG FUNCTION) WHICH MAY BE PERMANENT. MAY CAUSE DAMAGE TO
ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.

SECTION 12: ECOLOGICAL INFORMATION

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER CAS#:(9016-87-9) [45-65%]

TOXICITY: NO DATA AVAILABLE

PERSISTENCE AND DEGRADABILITY: NO DATA AVAILABLE

BIO ACCUMULATIVE POTENTIAL: NO DATA AVAILABLE

MOBILITY IN SOIL: NO DATA AVAILABLE

PBT AND VPVB ASSESSMENT: NO DATA AVAILABLE

OTHER ADVERSE EFFECTS: NO DATA AVAILABLE

4,4'-METHYLENEDIPHENYL DIISOCYANATE CAS#:(101-68-8) [15-55%]



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DATE AND VERSION: 1 APRIL 2022 VERSION 1.0

SAFETY DATA SHEET (SDS)

TOXICITY: TOXICITY TO DAPHNIA EC50 - DAPHNIA MAGNA (WATER FLEA) - 0.35 MG/L - 24 H. AND OTHER
AQUATIC INVERTEBRATES
PERSISTENCE AND DEGRADABILITY: NO DATA AVAILABLE
BIOACCUMULATIVE POTENTIAL: NO DATA AVAILABLE
MOBILITY IN SOIL: NO DATA AVAILABLE
PBT AND VPVB ASSESSMENT: NO DATA AVAILABLE
OTHER ADVERSE EFFECTS: DO NOT EMPTY INTO DRAINS.

SECTION 13: DISPOSAL CONSIDERATION

WASTE DISPOSAL OF SUBSTANCE:

ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS. CHEMICAL ADDITIONS, PROCESSING OR OTHERWISE ALTERING THIS MATERIAL MAY MAKE THE WASTE MANAGEMENT INFORMATION PRESENTED IN THIS SDS INCOMPLETE, INACCURATE OR OTHERWISE INAPPROPRIATE. WASTE CHARACTERIZATION AND DISPOSAL COMPLIANCE ARE THE RESPONSIBILITY SOLELY OF THE PARTY GENERATING THE WASTE OR DECIDING TO DISCARD OR DISPOSE OF THE MATERIAL. DO NOT ALLOW MATERIAL TO ENTER SEWERS, A BODY OF WATER, OR CONTACT THE GROUND. REFER TO RCRA 40 CFR 261, AND/OR ANY OTHER APPROPRIATE FEDERAL, STATE OR LOCAL REQUIREMENTS FOR PROPER CLASSIFICATION INFORMATION.

SECTION 14: TRANSPORTATION INFORMATION

NON DOT/RCRA REGULATED

IATA/IMDG/ICAO - NOT DANGEROUS GOODS

SECTION 15: REGULATORY INFORMATION

[%] RQ (CAS#) SUBSTANCE - REG CODES

[45-65%] ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER (9016-87-9) IARC, SARA313, TSCA
[15-55%] RQ(5000LBS), 4,4'-METHYLENEDIPHENYL DIISOCYANATE (101-68-8) CERCLA, HAP, IARC, MASS, NJHS, OSHAWAC, PA, SARA313, TSCA, TXAIR
[0-20%] BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO- (26447-40-5) TSCA
[0-7%] BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO-, HOMOPOLYMER (39310-05-9) TSCA

THIS PRODUCT DOES NOT CONTAIN CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.

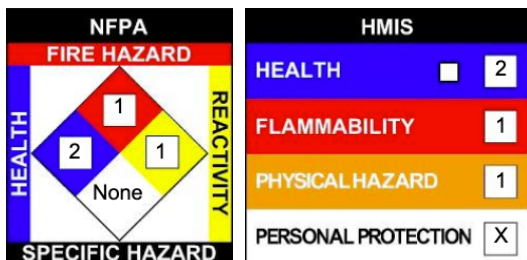
SECTION 16: OTHER INFORMATION

	HEALTH	FIRE	REACTIVITY/PHYSICAL HAZARD
NFPA	2	1	1
HMIS II	2	1	1
HMIS PPE	CONSULT SUPERVISOR FOR SPECIAL INSTRUCTIONS	CONSULT SUPERVISOR FOR SPECIAL INSTRUCTIONS	CONSULT SUPERVISOR FOR SPECIAL INSTRUCTIONS



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END OF SDS

SDS PREPARED BY: MVP COATINGS, INC.

SDS PREPARED ON: 4/1/2022

MVP COATINGS