



SAFETY DATA SHEET

GES- CRACK MENDER PART A

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	CRACK MENDER PART A RESIN	CHEMICAL SPILL EMERGENCY PHONE: 800-255-3824
PRODUCT CODES:		CHEMTEL PHONE:
MANUFACTURER:	EPOXY 2U, LLC	OTHER CALLS:
DIVISION:	FLOOR COATING	FAX PHONE:
ADDRESS:	2424 W 14TH STREET TEMPE AZ 85281	CHEMICAL NAME:
PRODUCT USE:	FLOOR COATING	CHEMICAL FAMILY:
PREPARED BY:	EPOXY 2U, LLC	CHEMICAL FORMULA:



SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION:	Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) - Category 3 Specific Target Organ Toxicity - Repeated Exposure - Category 2 Skin Irritation - Category 2 Eye Irritation - Category 2A Respiratory Sensitizer (Solid/Liquid) - Category 1 Skin Sensitizer - Category 2 Carcinogenicity - Category 2
SIGNAL WORD:	WARNING
HAZARD STATEMENTS:	H351 - Suspected of causing cancer. H319 - Causes serious eye irritation H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H315 - Causes skin irritation H317 - May cause an allergic skin reaction H373 - May cause damage to organs through prolonged or repeated exposure. H335 - May cause respiratory irritation

PRECAUTIONARY STATEMENTS (GENERAL):	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.
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PRECAUTIONARY STATEMENTS (PREVENTION):	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P264 - Wash thoroughly after handling. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. P284 - [In case of inadequate ventilation] wear respiratory protection. P272 - Contaminated work clothing should not be allowed out of the workplace. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. P271 - Use only outdoors or in a well-ventilated area. P233 - Keep container tightly closed.
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PRECAUTIONARY STATEMENTS (RESPONSE):	P308 + P313 - IF exposed or concerned: Get medical advice/attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice/attention. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P302 + P352 - IF ON SKIN: Wash with plenty of water. P321 - Specific treatment (see section 4 on this SDS). P332 + P313 - If skin irritation occurs: Get medical advice/attention. P362 + P364 - Take off contaminated clothing. And wash it before reuse. P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention. P314 - Get Medical advice/attention if you feel unwell. P312 - Call a POISON CENTER/doctor if you feel unwell.
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

PRECAUTIONARY STATEMENTS (STORAGE):	P405 - Store locked up.	
	P403 + P405 - Store in a well-ventilated place. Store locked up.	
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS		
CHEMICAL NAME	% BY WEIGHT	CAS#
POLYURETHANE PREPOLYMER	39% - 71%	0068092-58-0
4,4'-METHYLENEDIPHENYL DIISOCYANATE	18% - 33%	0000101-68-8
4-METHYL-1,3-DIOXOLAN-2-ONE	8% - 15%	0000108-32-7
MDI (MONOMER)	0.6% - 1.1%	0026447-40-5

SECTION 4: FIRST AID MEASURES

INHALATION:	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.Elminate all ignition sources if safe to do so.
SKIN CONTACT:	Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard. IF exposed or concerned: Get medical advice/attention.
EYE CONTACT:	Avoid direct contact. Wear chemical protective gloves, if necessary. 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.
INGESTION:	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position. IF exposed or concerned: Get medical advice/attention.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Dry chemical, foam, carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.
UNSUITABLE EXTINGUISHING MEDIA:	If water is used, use very large quantities of cold water. The reaction between water and hot isocyanate may be vigorous.
SPECIFIC HAZARDS IN CASE OF FIRE:	Vapors may accumulate and travel to ignition sources distant from the handling site; flash fire can occur. 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.
FIRE-FIGHTING PROCEDURES:	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), goggles, and full protective clothing are also required. Care should always be exercised in dust/mist areas.



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SECTION 6: ACCIDENTAL RELEASE MEASURES

EMERGENCY PROCEDURE:	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. If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.
RECOMMENDED EQUIPMENT:	Positive pressure, full-face piece self-contained breathing apparatus(SCBA), or positive pressure supplied air respirator with escape SCBA
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.
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.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Cover container, but do not seal, and remove from work area. Prepare a decontamination solution of 2.0% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's safety data sheets. Treat the spill area with the decontamination solution, using about 10 parts of the solution for each part of the spill, and allow it to react for at least 15 minutes. Carbon dioxide will be evolved, leaving insoluble polyureas. Residues from spill cleanup, even when treated as described may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. Slowly stir the isocyanate waste into the decontamination solution described above. Let stand for 48 hours, allowing the evolved carbon dioxide to vent away, residues may still be subject to RCRA storage and disposal requirements. Dispose off in compliance with all relevant local, state, and federal laws and regulations regarding treatment.

SECTION 7: HANDLING AND STORAGE

GENERAL:	Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas
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.
STORAGE ROOM REQUIREMENTS:	Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Ground and bond containers and receiving equipment. Avoid static electricity by grounding. Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer containers and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:	Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.
RESPIRATORY PROTECTION:	If airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied pressure supplied air respiratory with a full face piece or an air supplied hood. For emergencies, use a positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved for protection against isocyanates.
APPROPRIATE ENGINEERING CONTROLS:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold



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SKIN PROTECTION:	Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over- boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated. Depending on conditions of use, additional protection may be required such as apron, arm covers, or full body suit. Wash contaminated clothing before re-wearing.
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Chemical Name	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)
4,4'-METHYLENEDIPHENYL DIISOCYANATE	0.02	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.005	0.050	0.005	0.050	0.005	0.050
Chemical Name	ACGIH TWA (ppm)	OSHA TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	OSHA TWA (ppm)	OSHA TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)
4,4'-METHYLENEDIPHENYL DIISOCYANATE	0.005	0.051	0.005	0.051	0.005	0.051	0.005	0.051	0.005	0.050	0.005	0.050	0.005	0.050

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

DENSITY	9.33 lb/gal	VISCOSITY	N.A.
SPECIFIC GRAVITY	1.12	LOWER EXPLOSION LEVEL	N.A.
VOC REGULATORY	0.00 lb/gal	UPPER EXPLOSION LEVEL	N.A.
VOC PART A & B COMBINED	N.A.	VAPOR PRESSURE	N.A.
APPEARANCE	Clear Liquid	VAPOR DENSITY	Heavier than air
ODOR THRESHOLD	N.A.	FREEZING POINT	N.A.
ODOR DESCRIPTION	Mild Aromatic	MELTING POINT	N.A.
PH	N.A.	LOW BOILING POINT	150 °C
WATER SOLUBILITY	Reacts with Water	HIGH BOILING POINT	N.A.
FLAMMABILITY	N/A	AUTO IGNITION TEMP	N.A.
FLASH POINT SYMBOL	N.A.	DECOMPOSITION PT	N.A.
FLASH POINT	94 °C	EVAPORATION RATE	Slower than ether
		COEFFICIENT WATER/OIL	N.A.

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Material is stable at standard temperature and pressure.
CONDITIONS TO AVOID:	Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause liberation of carbon dioxide and buildup of pressure.
HAZARDOUS REACTIONS/ POLYMERIZATION:	Will not occur under normal conditions but under high temperatures in the presence of alkalis,tertiary amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.
HAZARDOUS REACTIONS/ POLYMERIZATION:	This product will react with any material containing active hydrogens, such as water, alcohol, ammonia, amines, alkalis and acids, the reaction with water is slow under 50°C, but is accelerated at higher temperature and in the presence of alkalis, tertiary amines, and metal compounds. Some reactions can be violent. Material can react with strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Carbon dioxide, carbon monoxide, nitrogen oxides, trace amounts of hydrogen cyanide and unidentified organic compounds may be formed during combustion



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SECTION 11: TOXICOLOGICAL INFORMATION

SKIN CORROSION/ IRRITATION:	Isocyanates react with skin protein and moisture and can cause irritation. Prolonged contact can cause reddening, swelling, rash, scaling, blistering, and, in some cases, skin sensitization. Individuals who have developed a skin sensitization can develop these symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor. Causes skin irritation
SERIOUS EYE DAMAGE/ IRRITATION:	Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. Prolonged vapor contact may cause conjunctivitis. Any level of contact should not be left untreated. Causes serious eye irritation
CARCINOGENICITY:	Suspected of causing cancer.
RESPIRATORY/SKIN SENSITIZATION:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction
GERM CELL MUTAGENICITY:	No data available
REPRODUCTIVE TOXICITY:	No data available
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:	May cause respiratory irritation
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:	May cause damage to organs through prolonged or repeated exposure.
ASPIRATION HAZARD:	No data available
ACUTE TOXICITY:	No data available
0000101-68-8	4,4'-METHYLENEDIPHENYL DIISOCYANATE
LC50 (rat): 369.490 mg/m3 (aerosol) (4-hour exposure) (1)	
LC50 (rat): 178 mg/m3 (17.4 ppm) (duration of exposure not reported) (2)	
LD50 (oral, rat): greater than 10,000 mg/kg (1,2)	
LD50 (dermal, rabbit): greater than 10,000 mg/kg (1)	
LD50 (oral, mouse): 2,200 mg/kg (3)	

SECTION 12: ECOLOGICAL INFORMATION

TOXICITY:	No data available
PERSISTENCE AND DEGRADABILITY:	No data available
BIOACCUMULATIVE POTENTIAL:	No data available
MOBILITY IN SOIL:	No data available
OTHER ADVERSE EFFECTS:	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:	Under RCRA, it is the responsibility of the user of the product, to determine a the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.
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SECTION 14: TRANSPORT INFORMATION

U.S. DOT INFORMATION:	Not regulated.
IMDG INFORMATION:	Not regulated.
ATA INFORMATION:	Not regulated.

SECTION 15: REGULATORY INFORMATION

CHEMICAL NAME	% BY WEIGHT	CAS#	REGULATION LIST
4,4'-METHYLENEDIPHENYL DIISOCYANATE	18% - 33%	0000101-68-8	CERCLA,HAPS,SARA312,SARA313,VHAPS,VOC,TSCA
4-METHYL-1,3-DIOXOLAN-2-ONE	8% - 15%	0000108-32-7	SARA312,TSCA
MDI (MONOMER)	0.6% - 1.1%	0026447-40-5	SARA312,TSCA
POLYURETHANE PREPOLYMER	39% - 71%	0068092-58-0	SARA312,TSCA

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:	Note: As per GHS, category 1 is the greatest level of hazard within each class.
GLOSSARY:	ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDGCanadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

DISCLAIMER:	To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.
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