

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: EM-HWU

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EM-HWU Part A (Clear)
PRODUCT CODES: EM-HWU-A

MANUFACTURER: EpoxyMaster
STREET ADDRESS: 755 W. Big Beaver Rd., Suite 2020
CITY, STATE, ZIP: Troy, MI 48084-4726

INFORMATION PHONE: 888-376-9954
EMERGENCY PHONE: Chemtrec: 800-424-9300
FAX PHONE: 248-373-0001

PREPARED BY: EpoxyMaster

DATE REVISED: 1/1/14

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
DIPROPYLENE GLYCOL METHYL ETHER ACETATE	88917-22-0	none	none	none	
URETHANE BIS OXAZOLIDINE	59719-67-4	none	none	none	
PROPYLENE CARBONATE	108-32-7	none	none	none	
*DIMETHYL PHTHALATE	131-11-3	5mg/m3	5mg/m3	none	
DIBUTYLIN DILURATE	77-58-7	0.1mg / m3	0.1mg / m3	0.1mg / m3	
*BENZOYL CHLORIDE	98-88-4	none	0.5 ppm	1ppm	<3%
TRIETHYL PHOSPHATE	78-40-0	none	none	none	
FUMED SILICA	1122945-52-5	none	80mg/m3	none	
PENTANEDIONE - 2, 4	123-54-6	none	none	none	

SECTION 2 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372. All components are on the TSCA list

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Medium viscosity liquid with faint solvent odor.
BOILING POINT OR RANGE: Not determined
VAPOR DENSITY (AIR = 1): Not available
SPECIFIC GRAVITY (H2O = 1): 1.1
EVAPORATION RATE: Not available
SOLUBILITY IN WATER: Negligible

SECTION 3 NOTES:

SECTION 4: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)
UPPER: Not available
LOWER: Not available

FLASH POINT: 103°F (39°C)

METHOD USED:

Seta Flash

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO2, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter confined fire area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool all fire exposed containers with water. Minimize contact with material.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Under conditions of stagnant air, vapors may build up and travel along the ground to an ignition source which can result in flash back to the source of the vapors. Toxic vapors could be evolved from the combustion of this material.

SECTION 4 NOTES:

SECTION 5: STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID (STABILITY):

Avoid excessive heat or open flames. This material should not be mixed with phosphorous containing material or oxidizers. Keep away from water sources.

INCOMPATIBILITY (MATERIAL TO AVOID):

Can react vigorously with strong oxidizing agents and phosphorous containing materials or can react to water exposure.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Carbon monoxide and carbon dioxide, hydrocarbon compounds as well as other hazardous compounds.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 5 NOTES:

SECTION 6: HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMIBILITY: 2 REACTIVITY: 1 PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

EYES:

May cause corneal damage if left untreated which is slow to heal but usually reversible.

SKIN:

May cause irritation or allergic response. May cause defatting, dryness, cracking, rash, burns or redness or dermatitis.

SKIN ABSORPTION:

Solvents can penetrate the skin causing effects similar to those for acute inhalation symptoms.

INGESTION:

Can cause irritation to the digestive tract including sore throat, abdominal pain, nausea, vomiting and diarrhea.

Vomiting may Cause Aspiration of solvents resulting in chemical pneumonitis.

INHALATION health risks and symptoms of exposure:

Solvent vapors are irritating to the eyes, nose and throat and respiratory tract resulting in dryness of the throat and tightness in the chest. Other symptoms include headache, nausea, narcosis, fatigue and loss of appetite.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Chronic Exposure to organic solvents has been associated with various neurotoxic effects including brain damage, nervous system damage or death. Prolonged vapor contact may cause conjunctivitis. Chronic inhalation may also include loss of memory, loss of intellectual ability and loss of coordination. Corneal damage is possible. Repeated Exposure to solvents can cause anemia, liver abnormalities, kidney damage or cardiac abnormalities.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory conditions or other allergic response.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: Contains component in category 3

ADDITIONAL CARCINOGENICITY INFORMATION:

Benzoyl chloride is an IARC category 3 – There is limited evidence that benzoyl chloride may cause cancer.

SECTION 7: FIRST AID MEASURES

EYES:

Flush eyes with water for at least fifteen minutes and consult a physician.

SKIN:

Wash affected area with soap and water and remove contaminated clothing promptly. Contact physician if irritation develops.

INGESTION:

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.

INHALATION:

Remove victim to fresh air area and administer oxygen if necessary. Consult a physician if necessary.

SECTION 7 NOTES:

SECTION 8: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition and ventilate the area. Wear appropriate protective equipment such as vapor cartridge or air supplied respirator when necessary. Dike and absorb the material with absorbent such as clay and place in disposal containers.

SECTION 8 NOTES:

SECTION 9: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

Dispose of the material in a waste disposal site in accordance with local, state, and federal laws. Empty containers should be handled with care due to product residue and possible vapor from organic solvents. Never use a gas or electric torch to cut the drums.

SECTION 10: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in cool dry area. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using the toilet facilities. Mixed materials contain the hazards of all the components, therefore, read the MSDS's of all the components prior to using the material. Properly label all containers.

OTHER PRECAUTIONS:

Avoid all skin contact. Avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles cannot be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse thereof. Supply appropriate ventilation or engineering controls prior to using this product.

SECTION 10 NOTES:

SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Use a NIOSH approved respirator as required to prevent over-exposure to vapor in accordance with 29 CFR 1910.134. Use a positive pressure respirator when airborne concentrations are not known or if exceeding TLV's or if working in a confined space. Always consider the hazards from all components in the mixed material state.

VENTILATION:

Exhaust ventilation sufficient to keep the airborne concentrations of the solvents and other hazardous materials below the toxic level concentrations.

PROTECTIVE GLOVES:

Impervious gloves – neoprene or rubber.

EYE PROTECTION:

Splash goggles or glasses with side shields. If the environment warrants, a full face shield should be employed.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear body covering clothing and other coverings as necessary such as an apron and appropriate footwear to avoid contact.

WORK HYGIENIC PRACTICES:

Observe good general hygienic practices.

SECTION 11 NOTES:

SECTION 12: DISCLAIMER

DISCLAIMER: The information contained herein is based on the data available and is believed to be accurate; however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EM-HWU Part B

PRODUCT CODES: EM-HWU-B

MANUFACTURER: EpoxyMaster

STREET ADDRESS: 755 W. Big Beaver Rd., Suite 2020

CITY, STATE, ZIP: Troy, MI 48084-4726

INFORMATION PHONE: 888-376-9954

EMERGENCY PHONE: Chemtrec: 800-424-9300

FAX PHONE: 248-373-0001

PREPARED BY: EpoxyMaster

DATE REVISED: 1/1/14

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: EM-HWU

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
Hopolymer of HDI	28182-81-2	1 mg/m ³	NONE	NONE	
*Hexamethylene Diisocyanate (HDI)	822-06-0	NONE	.005 PPM	NONE	<0.3%

*Indicates toxic chemical (s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372. All Components are on the TSCA list.

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Pale yellow liquids, odorless

BOILING POINT OR RANGE: Not determined

VAPOR DENSITY (AIR = 1): Not available

SPECIFIC GRAVITY (H₂O = 1): 1.12

EVAPORATION RATE: Not available

SOLUBILITY IN WATER: Reacts with water

SECTION 3 NOTES:

SECTION 4: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)

UPPER: Not available
LOWER: Not available

FLASH POINT: 300°F (149°C)

METHOD USED:

Closed cup

EXTINGUISHING MEDIA:

Foam, alcohol foam, CO₂, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter confined fire area without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus...Remove all sources of ignition.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Sealed drums may rupture and ignite. During a fire, HDI vapors and other toxic gasses may be evolved. Containers may burst if contaminated with water.

SECTION 4 NOTES:

SECTION 5: STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS TO AVOID (STABILITY):

Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, static discharges, etc.

INCOMPATIBILITY (MATERIAL TO AVOID):

Avoid water, amines, strong bases, alcohols, metal compounds, and surface active compounds.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

May form toxic chemicals, carbon dioxide carbon monoxide, oxides of nitrogen, HCN and HDI.

HAZARDOUS POLYMERIZATION:

Moisture or materials that react with isocyanates and temperatures above 400°F may cause polymerization.

SECTION 5 NOTES:

SECTION 6: HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMIBILITY: 1 REACTIVITY: 1 PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

EYES:

Can cause irritation, redness, tearing or blurred vision as well as corneal opacity and conjunctivitis.

SKIN:

May cause irritation, defatting, and dermatitis.

SKIN ABSORPTION:

Can cause reddening, swelling, rash, scaling or blistering. Overexposure may cause sensitization resulting in reaction to contact of small amounts.

INGESTION:

Can cause gastrointestinal irritation, nausea, vomiting, diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal. Can cause corrosive action to mucous membranes and digestive tracts.

INHALATION health risks and symptoms of exposure:

Can cause nausea and respiratory irritation, dizziness, weakness, nausea, headache. Burning sensation to mucous membranes, shortness of breath and flu like symptoms may occur.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Can cause sensitization by exposure through contact or high concentrations of vapor. May cause asthma or other respiratory disorders, bronchitis, emphysema, hyperactivity and eczema.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory conditions or other allergic response.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: Yes

ADDITIONAL CARCINOGENICITY INFORMATION:

SECTION 7: FIRST AID MEASURES

EYES:

Flush eyes with water for at least fifteen minutes and consult a physician.

SKIN:

For extreme exposure use a safety shower immediately. Wash affected area with soap and water and remove contaminated clothing promptly.

INGESTION:

Give 2-3 glasses of water to drink and induce vomiting. Keep person warm and consult a physician immediately.

INHALATION:

Remove victim to fresh air area and administer oxygen if necessary. Obtain medical assistance, asthmatic type symptoms may occur immediately or be delayed for several hours. Treatment is symptomatic.

SECTION 7 NOTES:

SECTION 8: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear respirator and protective clothing. Remove all sources of ignitions. Remove excess with an absorbent such as clay and place in disposal containers. Contained air respirator may be necessary.

SECTION 8 NOTES:

SECTION 9: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

Dispose of the material in a waste disposal site in accordance with local, state and federal laws.

SECTION 10: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store in cool dry place, seal all partially used containers. Wash with soap and water before eating, drinking, smoking, or using the toilet facilities. Mixed materials contain the hazards of all the components; therefore, read the MSDS's of all the components prior to using material. Properly label all containers. Keep material away from all sources of ignition and water sources.

OTHER PRECAUTIONS:

Avoid all skin contact. Avoid breathing vapors generated from the material. Observe conditions of good general hygiene and safe working practices. Contaminated leather articles cannot be cleaned and must be discarded if contaminated with this product. Wash all contaminated clothing prior to the reuse thereof. Wear appropriate safety equipment and respirator at all times when ventilation is not sufficient to control vapors. Observe OSHA regulations for respirator use (29 CFR 1910.134). When spraying material avoid exposure to all mists generated by using air supplied respirator.

SECTION 10 NOTES:

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: EM-HWU

SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Use a NIOSH approved respirator as required to prevent over-exposure to vapor in accordance with 29 CFR 1910.134. Engineering or administrative measures should be taken to reduce the risk and exposure. Use a positive pressure supplied air respirator when exceeding TLV's or if HDI Monomer concentrations exceed acceptable limits or when spraying material.

VENTILATION:

Exhaust ventilation sufficient to keep airborne concentrations of HDI below their TLV and MGL maximum. Refer to Patty's Industrial Hygiene and Toxicology- Volume 1 (3rd edition) Chapter 17 and Volume III (1st edition) Chapter 3 for details.

PROTECTIVE GLOVES:

Impervious gloves – neoprene or rubber.

EYE PROTECTION:

Splash goggles or glasses with side shields. Do not wear contact lenses when using this product.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Wear body covering clothing and other coverings as necessary such as an apron and appropriate footwear to avoid contact.

WORK HYGIENIC PRACTICES:

Observe good general hygienic practices.

SECTION 11 NOTES:

SECTION 12: DISCLAIMER

DISCLAIMER: The information contained herein is based on the data available and is believed to be accurate; however, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EM-HWU Part C AGGREGATE

PRODUCT CODES: EM-HWU-C

MANUFACTURER: EpoxyMaster

STREET ADDRESS: 755 W. Big Beaver Rd., Suite 2020

CITY, STATE, ZIP: Troy, MI 48084-4726

INFORMATION PHONE: 888-376-9954

EMERGENCY PHONE: Chemtrec: 800-424-9300

FAX PHONE: 248-373-0001

PREPARED BY: EpoxyMaster

DATE REVISED: 1/1/14

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
Fused white aluminum oxide	1344-28-1	5MG/M3	10MG/M3	NONE	

SECTION 2 NOTES: *No toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372. All components are on the TSCA list.

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: WHITE POWDER FORM

BOILING POINT OR RANGE: N/A

VAPOR DENSITY (AIR = 1): N/C

SPECIFIC GRAVITY (H₂O = 1): 1.5

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: N/A

SECTION 3 NOTES:

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: EM-HWU

SECTION 4: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% by volume) UPPER: N/A
LOWER: N/A

FLASH POINT: N/A

METHOD USED: N/A

EXTINGUISHING MEDIA:

NONE KNOWN

SPECIAL FIRE FIGHTING PROCEDURES:

ALUMINUM OXIDE IS NEITHER A FIRE NOR AN EXPLOSION HAZARD.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NO UNUSUAL FIRE HAZARDS KNOWN.

SECTION 4 NOTES:

SECTION 5: STABILITY AND REACTIVITY

STABILITY:

STABLE

CONDITIONS TO AVOID (STABILITY):

NONE KNOWN

INCOMPATIBILITY (MATERIAL TO AVOID):

NONE KNOWN

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

NONE KNOWN

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION 5 NOTES:

SECTION 6: HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMIBILITY: 0 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: E

POTENTIAL HEALTH EFFECTS

EYES:

MAY CAUSE REDDENING OF THE EYES OR EYE IRRITATION FROM AIRBORNE PARTICLES

SKIN:

NONE KNOWN

INGESTION:

NONE KNOWN

INHALATION:

NO DATA AVAILABLE

HEALTH HAZARDS (ACUTE AND CHRONIC):

INHALATION OF DUST GENERATED MAY AGGREGATE PRE-EXISTING CONDITIONS

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PULMONARY CONDITIONS OR OTHER SIMILAR AILMENTS CAN BE AGGRAVATED BY EXPOSURE.

CARCINOGENICITY

OSHA: NO

NTP: NO

IARC: NO

NO CARCINOGENICITY PROPERTIES ARE KNOWN TO EXIST.

SECTION 7: FIRST AID MEASURES

EYES:

FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN IF CONDITION WARRANTS.

SKIN:

SKIN CONTACT WILL NORMALLY CAUSE NO HEALTH RISKS.

INGESTION:

IF INGESTED, CONSULT A PHYSICIAN.

INHALATION:

REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY, CONSULT WITH A PHYSICIAN IF CONDITIONS WARRANT.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 7 NOTES:

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: EM-HWU

SECTION 8: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR AND USE DUSTLESS HANDLING EQUIPMENT TO CLEAN UP LARGE SPILLS. PLACE IN SUITABLE CONTAINERS FOR DISPOSAL. FLUSH AREA WITH WATER AFTER PICKUP OF MATERIAL.

SECTION 8 NOTES:

SECTION 9: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

SECTION 10: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A COOL DRY PLACE. PROPERLY LABEL ALL CONTAINERS AND RESEAL ALL PARTIALLY USED CONTAINERS. AVOID CREATING ANY DUST WHEN WORKING WITH THIS MATERIAL.

OTHER PRECAUTIONS:

AVOID BREATHING DUST GENERATED FROM THIS MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES.

SECTION 10 NOTES:

SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

USE A NIOSH APPROVED RESPIRATOR OR DUST MASK AS REQUIRED TO PREVENT OVER-EXPOSURE TO DUST. PROVIDE SUFFICIENT EXHAUST TO KEEP EXPOSURE LEVELS BELOW THE ACGIH PEL.

VENTILATION:

USE EXHAUST SUFFICIENT TO MAINTAIN AIRBORNE PARTICULATES BELOW THE ACGIH PEL LIMITS ESTABLISHED.

PROTECTIVE GLOVES:

N/A

EYE PROTECTION:

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

PROVIDE ANY EQUIPMENT NECESSARY TO PREVENT THE INHALATION OF DUST.

WORK HYGIENIC PRACTICES:

OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SECTION 11 NOTES:

SECTION 12: DISCLAIMER

DISCLAIMER:

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE; HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: EM-HWU

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EM-HWU Pigment Pack
PRODUCT CODES: EM-HWU Pigment Pack

MANUFACTURER: EpoxyMaster
STREET ADDRESS: 755 W. Big Beaver Rd., Suite 2020
CITY, STATE, ZIP: Troy, MI 48084-4726

INFORMATION PHONE: 888-376-9954
EMERGENCY PHONE: Chemtrec: 800-424-9300
FAX PHONE: 248-373-0001

PREPARED BY: EpoxyMaster

DATE REVISED: 1/1/14

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
2-(3-heptyl)-N-butyl-1,3-oxazolidine	165101-57-5	none	none	none	
Titanium dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	
Aluminum hydroxide	21645-51-2	none	10mg/m3	none	
Proprietary additive	NJT SRN 567057-00001-5382P	none	none	none	
Depending on color may also contain the following pigments or products					
Additive	NJT SRN 678290-00-2-50028-P	none	none	none	
Yellow iron oxide	51274-00-1	5mg/m3	10mg/m3	none	
Iron oxide	1332-37-2	5mg/m3	10mg/m3	none	
Copper phthalocyanine	147-14-8	none	none	none	
Additive	NJT SRN 56705700001-5027P	none	none	none	
C.I. Pigment Violet 19	1047-16-1	none	none	none	
Carbon	1333-86-4	3.5PPM	3.4PPM	NONE	
C.I. pigment green 7	1328-53-6	none	none	none	

SECTION 2 NOTES:

No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Medium viscosity liquid in various colors

BOILING POINT OR RANGE: Not determined

VAPOR DENSITY (AIR = 1) ° F: N/A

SPECIFIC GRAVITY (H₂O = 1): Varies by color

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: NEGLIGIBLE

SECTION 3 NOTES:

SECTION 4: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: N/A
(% by volume) LOWER: N/A

FLASH POINT: >200°F (93°C)

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA:

FOAM, ALCOHOL FOAM, CO₂, DRY CHEMICAL, WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:

DO NOT ENTER CONFINED FIRE AREA WITHOUT FULL BUNKER GEAR INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS; COOL ALL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NO UNUSUAL FIRE HAZARDS KNOWN.

SECTION 4 NOTES:

MATERIAL SAFETY DATA SHEET

PRODUCT CODE: EM-HWU

SECTION 5: STABILITY AND REACTIVITY

STABILITY:

STABLE

CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES.

INCOMPATIBILITY (MATERIAL TO AVOID):

CAN REACT VIGOROUSLY WITH STRONG OXIDIZING AGENTS AND STRONG LEWIS ACIDS OR MINERAL ACIDS. CAN REACT MILDLY WITH WATER.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

CO₂, ALDEHYDES, ACIDS, CARBON COMPOUNDS, HYDROGEN COMPOUNDS ETC.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION 5 NOTES:

SECTION 6: HAZARDS IDENTIFICATION

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMIBILITY: 1 REACTIVITY: 0 PERSONAL PROTECTIVE EQUIPMENT: B

POTENTIAL HEALTH EFFECTS

EYES:

MAY CAUSE IRRITATION AND POSSIBLE CORNEAL DAMAGE.

SKIN:

MAY CAUSE IRRITATION OR ALLERGIC SKIN RESPONSE.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, OR VOMITING. ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL.

INHALATION:

NO GUIDE FOR CONTROL KNOWN, HOWEVER, EXPOSURE TO HEATED VAPORS CAN CAUSE IRRITATION TO THE NOSE, THROAT OR MUCOUS MEMBRANES.

HEALTH HAZARDS (ACUTE AND CHRONIC):

CAN CAUSE IRRITATION OR ALLERGIC SKIN RESPONSE. NO OTHER HAZARDS KNOWN.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: Yes

ADDITIONAL CARCINOGENICITY INFORMATION:

Some colors may contain carbon black - Explanation of Carcinogenicity: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B.

SECTION 7: FIRST AID MEASURES

EYES:

FLUSH EYES WITH WATER FOR AT LEAST FIFTEEN MINUTES AND CONSULT A PHYSICIAN.

SKIN:

SKIN CONTACT WILL NORMALLY CAUSE NO MORE THAN IRRITATION BUT WASH AFFECTED AREA WITH SOAP AND WATER AND REMOVE CONTAMINATED CLOTHING PROMPTLY.

INGESTION:

DO NOT INDUCE VOMITING AND CONSULT A PHYSICIAN.

INHALATION:

REMOVE VICTIM TO FRESH AIR AREA AND ADMINISTER OXYGEN IF NECESSARY. CONSULT PHYSICIAN IF NECESSARY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 7 NOTES:

SECTION 8: RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

WEAR RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF THE SOURCE AT THE LEAK. REMOVE EXCESS WITH VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBANT SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. FLUSH AREA WITH WATER TO REMOVE RESIDUE.

SECTION 8 NOTES:

SECTION 9: WASTE DISPOSAL

WASTE DISPOSAL METHOD: DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

SECTION 10: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. MIXED MATERIALS CONTAIN THE HAZARDS OF ALL THE COMPONENTS; THEREFORE, READ THE MSDS'S OF ALL THE COMPONENTS PRIOR TO USING MATERIAL. PROPERLY LABEL ALL CONTAINERS.

OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED LEATHER ARTICLES CANNOT BE CLEANED AND MUST BE DISCARDED IF CONTAMINATED WITH THIS PRODUCT. WASH ALL CONTAMINATED CLOTHING PRIOR TO THE REUSE THEREOF.

SECTION 11: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER-EXPOSURE TO VAPOR IN ACCORDANCE WITH 29 CFR 1910.134.

VENTILATION:

GENERAL EXHAUST IS USUALLY SUFFICIENT TO CONTROL VAPORS AND EXPOSURE HAZARDS. HOWEVER, IF VENTILATION IS NOT SUFFICIENT TO CONTROL VAPORS, A NIOSH APPROVED RESPIRATOR MUST BE USED.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES – NEOPRENE OR RUBBER

EYE PROTECTION:

SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

WEAR BODY COVERING CLOTHING AND OTHER COVERING AS NECESSARY SUCH AS APRON AND APPROPRIATE FOOTWEAR TO AVOID CONTACT WITH MATERIAL.

WORK HYGIENIC PRACTICES:

OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SECTION 11 NOTES:

SECTION 12: DISCLAIMER

DISCLAIMER: THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.



For more information on EpoxyMaster products please visit:

www.epoxymaster.com

EpoxyMaster · 755 W. Big Beaver Rd., Suite 2020 · Troy, MI 48084-4726 · (888) 376-9954

© 2014 EpoxyMaster