SDS

ArmorUltra: Standard VOC 3-Layer Epoxy System



SDS Information

- ArmorUltra 2-Part Epoxy Primer
- ArmorUltra 100% Solids Epoxy
- ArmorUltra 2-Part Military Grade Topcoat



www.armorpoxy.com 1260 North Ave Plainfield, NJ 07062

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARM144 PART A PRODUCT CODES: 144x A

MANUFACTURER: Armorpoxy Inc. STREET ADDRESS: 1260 North Avenue CITY, STATE, ZIP: Plainfield, NJ 07062

INFORMATION PHONE: 888-755-7361 EMERGENCY PHONE: 800-424-9300 FAX PHONE: (973) 453-8114

PREPARED BY: Armorpoxy Inc.

DATE REVISED: 6/16/16

Chemical Name or Class: Solid Epoxy and solvent mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Flammable liquid category 3, Specific target organ toxicity following repeated exposure category 2, Specific target organ toxicity – single exposure category 3, Aspiration hazard category 2, Acute dermal toxicity category 4, Skin corrosion/irritation category 2, skin sensitizer category 1B, Serious eye irritation category 2, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Health hazard, Exclamation Mark



Hazard Statements:

Warning: Flammable liquid and vapor.

Warning: May cause damage to organs (auditory system) through prolonged or repeated exposure

Warning: may cause drowsiness or dizziness

Warning: May be harmful if swallowed and enters airways

Warning: Harmful in contact with skin

Warning: Causes skin irritation

Warning: May cause an allergic skin reaction

Warning: Causes serious eye irritation.

Warning: Harmful if inhaled

Harmful to aquatic life.

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash skin thoroughly after handling.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P271 Use only outdoors or in a well-ventilated area

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL for extinction.

P314 Get medical advice/attention if you feel unwell

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: wash with plenty of soap and water

P312 Call a POISON CENTER or doctor/physician if you feel unwell

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P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: 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.

P273 Avoid release to the environment

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool

P405 Store locked up.

P233 Keep container tightly closed.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

Other Non-classifiable potential hazards Carcinogenicity category 2, (Ethyl benzene at less than 17% in a study done by the NTP was determined to not be carcinogenic.)

HMIS HAZARD CLASSIFICATION

REACTIVITY: 0 HEALTH: 2 FLAMMIBILITY: 3 PERSONAL PROTECTIVE EQUIPMENT: G POTENTIAL HEALTH EFFECTS EYES: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, OR BLURRED VISION. SKIN: MAY CAUSE IRRITATION, DEFATTING AND DERMATITIS. INGESTION: CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITTING, DIARRHEA AND ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PHEUMONTITIS WHICH CAN BE FATAL. INHALATION: CAN CAUSE NAUSEA AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, HEADACHE AND POSSIBLE UNCONSCIOUSNESS HEALTH HAZARDS (ACUTE AND CHRONIC):

EPOXY RESINS CAN CAUSE SENSITIZATION BY EXPOSURE THROUGH CONTACT OR HIGH CONCENTRATIONS OF VAPOR. OVER EXPOSURE TO THIS MATERIAL CAN CAUSE CARDIAC ABNORMALITIES, ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE OR EVEN EYE DAMAGE.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE. CARCINOGENICITY OSHA: NO NTP: yes IARC: yes

ADDITIONAL CARCINOGENICITY INFORMATION: Product may contain ethyl benzene as a component of xylene (IARC 2B)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT | CAS NO. | OSHA PEL | ACGIH TLV | OSHA STEL | WEIGHT % |
|--|------------|----------|-----------|-----------|----------|
| Solid Epoxy Resin | 25036-25-3 | NONE | NONE | NONE | 40-70 |
| *Xylene | 1330-20-7 | 100PPM | 100PPM | 150PPM | 26 |
| *ethyl benzene (as a component of xylene | 100-41-4 | 100ppm | 100ppm | 125ppm | 0-5.0 |
| *toluene (as a component of xylene) | 108-88-3 | 200ppm | 20ppm | 150ppm | 0-0.2 |
| Propylene Glycol Monomethyl Ether | 107-98-2 | 100PPM | 100PPM | 150PPM | 10-30 |

SECTION 3 NOTES:

*** Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372. ACGIH STEL=150PPM FOR XYLENE.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: 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, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY.

INHALATION:

REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY.

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SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: not available (% by volume) LOWER: not available FLASH POINT: 75F 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. PRESENCE OF SOLVENTS IN PRODUCTS MAY REQUIRE GROUNDING.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF FIRE OCCURS, SOLVENTS MAY PRODUCE EXCESSIVE PRESSURE. SEALED DRUMS MAY RUPTURE AND IGNITE. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND AND IGNITE BY ANY SOURCE OF IGNITION. NEVER USE A CUTTING OR WELDING TORCH NEAR CONTAINERS (EVEN EMPTY). ALL 5 GALLON AND LARGER CONTAINERS SHOULD BE GROUNDED BEFORE TRANSFERRING MATERIAL.

SECTION 6: 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 VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBENT MATERIAL SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. FLUSH AREA WITH WATER TO REMOVE RESIDUE.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A 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. KEEP MATERIAL AWAY FROM ALL SOURCES OF IGNITION.

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 CAN NOT 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 VENTILLATION IS NOT SUFFICIENT TO CONTROL VAPORS.

SECTION 8: 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. VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TOXIC LEVEL VALUES. 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 COVERINGS AS NECESSARY SUCH AS APRON AND APPROPRIATE FOOTWEAR TO AVOID CONTACT WITH MATERIAL. WORK HYGIENIC PRACTICES: OBSERVE GOOD GENERAL HYGENIC PRACTICES.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: PALE YELLOW LIQUID WITH SOLVENT ODOR BOILING POINT OR RANGE: 243 TO 279 F VAPOR DENSITY (AIR = 1): Not available SPECIFIC GRAVITY (H2O = 1): 1.0 EVAPORATION RATE: not available SOLUBILITY IN WATER: NEGLIGIBLE

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

SECTION 10: 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, AND STATIC DISCHARGES ETC. INCOMPATIBILITY (MATERIAL TO AVOID): AVOID AMINE CURING AGNETS IN UNCONTROLLED AMOUNTS AND STRONG OXIDIZING AGENTS. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: MAY FORM TOXIC CHEMICALS, CARBON DIOXIDE, CARBON MONOXIDE AND VARIOUS HYDROCARBONS ETC.. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Solid Epoxy Resin CAS# 25036-25-3: May Cuase Sensitization by skin contact or through inhalation.

Component Xylene: Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Xylene may contain ethyl benzene, and toluene. Ethyl benzene has shown limited evidence of a carcinogenic effect.

Component CAS# 107-98-2: Ingestion LD50 rat 4016 mg/kg, Dermal LD50 rabbit >2000 mg/kg, Inhalation LC50 6 hr Vapor, rat >25.8 mg/l. May cause eye or skin irritation. May sffect Kidney or liver. Has been reported to be toxic to fetus in laboratory animals.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertabrates: Toxic 1 < LC/EC/IC50 <10mg/l, Algae: Toxic 1 < LC/EC/IC50 <10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

Comonent CAS@ **107-98-2**: Bioconcentration potential is low (BCF less than 100). Potential for mobility in soil is high (KOC between 0 and 50). Material is readily biodegradable and is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100mg/l in the most sensitive species tested.. LC50 fathead minnow 96 hr 20800 mg/l, LC50 water flea 48 hr lethally 23300 mg/l, EbC50 green algae biomass growth inhibition 7 d >1000 mg/l. Toxicity to microorganisms IC50 activated sludge > 1000 mg/l

SECTION 13: WASTE DISPOSAL

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

SECTION 14: Transport Information

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE), 3, PG III IMO/IMDG: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE), 3, PG III

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

All Chemicals on TSCA list

This product contains chemicals listed on California Propsition 65 list.

This product contains Chemical(s) subject to reporting requirements section 313 – xylene @ <26%. % (ethyl benzene <5.0% and toluene <0.1% as a component of xylene).

All components of this product are on the Canadian Domestic Substance list

Component Xylene: Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. (Maximum wt % for components of xylene are: M-Xylene CAS# 108-38-3 is 46%, P-Xylene CAS# 106-42-3 is 20%, Ethyl Benzene CAS# 100-41-4 is 19%, O-Xylene CAS# 95-47-6 is 16%... Xylene and its components are on the California Propostion 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS, China, EINECS, ENCS, Korea, New Zealand, Phillipines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists Ethyl Benzene a component of xylene has been designated by IARC as a possible carcinogen to humans based on increased tumor incidence in laboratory animals. risk phrases R10 Flammable R20/21 Harmful by inhalation and in contact with skin, R38 iritating to skin, S25 Avoid contact with eyes.

Component CAS# 107-98-2; on the PA right to know list. Product is on the TSCA list and DSL Canada **Component Solid Epoxy Resin** on the Pennsylvania right to know list **WHMIS HAZARD CLASSIFICATION:** Class B Division 2, Class D Division 2B

SECTION 16: OTHER INFORMATION

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.

N/A = Not Available See Section 1 for date of preparation

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 144x PART B PRODUCT CODES: 144x B

MANUFACTURER: Armorpoxy Inc. STREET ADDRESS: 1260 North Avenue CITY, STATE, ZIP: Plainfield, NJ 07062

INFORMATION PHONE: 888-755-7361 EMERGENCY PHONE: Chemtrec 800-424-9300 FAX PHONE: (973) 453-8114

PREPARED BY: Armorpoxy Inc.

DATE REVISED: 6/16/16

Chemical Name or Class: Polyamide and solvent mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Flammable liquid category 3, Specific target organ toxicity following repeated exposure category 2, Specific target organ toxicity - single exposure category 3, Aspiration hazard category 2, Acute dermal toxicity category 4, Skin corrosion/irritation category 2, skin sensitizer category 1B, Serious eye irritation category 1, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Health hazard, Exclamation Mark, Corrosion



Hazard Statements:

Warning: Flammable liquid and vapor.

Warning: May cause damage to organs (auditory system) through prolonged or repeated exposure

Warning: May cause respiratory irritation.

Warning: May be harmful if swallowed and enters airways

Warning: Harmful in contact with skin

Warning: Causes skin irritation

Warning: May cause an allergic skin reaction

Danger: Causes serious eye damage.

Warning: Harmful if inhaled

Warning: harmful to aquatic life.

Precautionary statements: P102 Keep out of reach of children.

P103 Read label before use

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P271 Use only outdoors or in a well-ventilated area.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P271 Use only outdoors or in a well-ventilated area

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL for extinction.

P314 Get medical advice/attention if you feel unwell

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P302 + P352 IF ON SKIN: wash with plenty of soap and water

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P333 + P313 IF SKIN irritation or rash occurs: 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.

P310 If in eyes, immediately call a POISON CENTER or doctor/physician.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P273 Avoid release to the environment

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool

P405 Store locked up

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

Other Non-classifiable potential hazards

Carcinogenicity category 2, (Ethyl benzene at less than 17% in a study done by the NTP was determined to not be carcinogenic.)

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

EYES:

CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, OR BLURRED VISION.

SKIN:

MAY CAUSE IRRITATION, DEFATTING AND DERMATITIS.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA AND ASPIRATION OF MATERIAL INTO THE LUNGS CAN CAUSE CHEMICAL PHEUMONTITIS WHICH CAN BE FATAL.

INHALATION:

CAN CAUSE NAUSEA AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, HEADACHE AND POSSIBLE UNCONSCIOUSNESS

HEALTH HAZARDS (ACUTE AND CHRONIC):

AMINE RESINS CAN CAUSE SENSITIZATION BY EXPOSURE THROUGH CONTACT OR HIGH CONCENTRATIONS OF VAPOR. OVER EXPOSURE TO THIS MATERIAL CAN CAUSE CARDIAC ABNORMALITIES, ANEMIA, LIVER ABNORMALITIES, KIDNEY DAMAGE OR EVEN EYE DAMAGE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

CARCINOGENICITY

OSHA: NO NTP: yes IARC: yes

ADDITIONAL CARCINOGENICITY INFORMATION:

Some colors may contain carbon black - Explanation Of Carcinogenicity for carbon: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B. Product may contain ethyl benzene as a component of xylene (IARC 2B). IARC has determined that crystalline silica inhaled in the form of quartz is carcinogenic to humans (Group 1- carcinogenic to humans). The NTP classifies respirable crystalline silica as reasonably anticipated to be a carcinogen. Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B). Product may contain ethyl benzene as a component of xylene (IARC 2B)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT | CAS NO. | OSHA PEL | ACGIH TLV | OSHA STEL | WEIGHT % |
|--|-------------------|---------------|-----------|-----------|----------|
| *Xylene | 1330-20-7 | 100PPM | 100PPM | 150PPM | 28 |
| *ethyl benzene (as a component of xylene | 100-41-4 | 100ppm | 100ppm | 125ppm | 0-6.0 |
| *toluene (as a component of xylene) | 108-88-3 | 200ppm | 20ppm | 150ppm | 0-0.2 |
| Triethylene tetramine | 112-24-3 | NONE | NONE | NONE | 1-5 |
| Dimer/tofa, reaction products with Teta | 68082-29-1 | NONE | NONE | NONE | 10-30 |
| Aromatic Petroleum Distillates | 64742-95-6 | 100PPM | 100PPM | NONE | 1-5 |
| *cumene (as a component of 64742-95-6) | 98-82-8 | 50ppm | 50ppm | NONE | <0.1 |
| *1,2,4-Trimethylbenzene as a component of A | Aromatic Petroleu | m Distillates | | | |
| | 95-63-6 | 25ppm | NONE | NONE | <2 |
| *ethyl benzene (as a component of Aromatic | petroleum Distill | ate) | | | |
| | 100-41-4 | 100ppm | 100ppm | 125ppm | <1 |
| TRIS-2,4,6-dimethylaminomethylphenol | 90-72-2 | NONE | NONE | NONE | 1-5 |
| Bis(dimethylaminomethyl) phenol | 71074-89-0 | NONE | NONE | NONE | 0.1-1 |
| Mica | 12001-26-2 | 20mppcf | 3mg/m3 | NONE | 7-13 |
| *crystalline silica (as a component of mica) | 14808-60-7 | 10mg/m3 | .1mg/m3 | .1mg/m3 | <0.1 |
| Talc | 14807-96-6 | 20mg/m3 | 20mg/m3 | 20mg/m3 | 10-30 |
| *crystalline silica (as a component of talc) | 14808-60-7 | 10mg/m3 | .1mg/m3 | .1mg/m3 | <0.1 |
| *BUTANOL NORMAL | 71-36-3 | 50PPM | 50PPM | NONE | 2 |
| Propylene glycol methyl ether acetate | 108-65-6 | NONE | NONE | NONE | 0.1-1 |
| | PA | GE 7 OF 11 | | | |

| 2-methoxy-1-propanol acetate | 70657-70-4 | NONE | NONE | NONE | 0.1-1 |
|--|-----------------|---------|----------|--------|-------|
| Colors may contain @ 10-30%: | | | | | |
| Titanium Dioxide | 13463-67-7 | 10mg/m3 | 10mg/m3 | 5mg/m3 | |
| Carbon black | 1333-86-4 | 3.5 ppm | 3.5 ppm | none | <1.0 |
| Acrylic polymers (non-hazardous) | trade secret | NONE | NONE | NONE | |
| C.I. Pigment violet 19 | 1047-16-1 | NONE | NONE | NONE | |
| Barium Sulfate | 7727-43-7 | 5 mg/m3 | 10 mg/m3 | NONE | |
| zinc salt of alkyl naphalene sulfonic acid | undisclosed | NONE | NONĚ | NONE | |
| solvent naptha | 64742-88-7 | NONE | NONE | NONE | |
| polyamine polyester polymer | (non hazardous) | NONE | NONE | NONE | |
| C.I. Pigment blue 15 | 147-14-8 | NONE | NONE | NONE | |
| C.I. Pigment Blue | 25869-00-5 | NONE | NONE | NONE | |
| C11-C13 isoparaffin | 64741-65-7 | NONE | NONE | NONE | |
| C.I. Pigment green 17 | 1308-38-9 | NONE | NONE | NONE | |
| Alkyl polyether phosphate ester | trade secret | NONE | NONE | NONE | |
| C.I. Pigment green 7 | 1328-53-6 | NONE | NONE | NONE | |
| C.I. Pigment green 36 | 14302-13-7 | NONE | NONE | NONE | |
| C.I. Pigment Yellow | 4531-49-1 | NONE | NONE | NONE | |
| C.I. Pigment Yellow | 5567-15-7 | NONE | NONE | NONE | |
| C.I. Pigment vellow 42 | 51274-00-1 | NONE | NONE | NONE | |
| pigment orange | 15793-73-4 | NONE | NONE | NONE | |
| C.I. Pigment red 101 | 1309-37-1 | NONE | NONE | NONE | |
| C.I. Pigment red 3 | 2425-85-6 | NONE | NONE | NONE | |
| aluminum silicate dehvdrate | 1332-58-7 | NONE | NONE | NONE | |
| mineral spirits | 8052-41-3 | 100ppm | 100ppm | NONE | |
| C.I. Pigment red 187 | 59487-23-9 | NONE | NONE | NONE | |

SECTION 3 NOTES:

INDICATES TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND OF 40 CFR 372. (ACGIH STEL=150PPM FOR XYLENE). (BUTANOL: OSHA CEILING =50PPM, TWA-SKIN=50PPM, ACGIH TWA SKIN=50PPM). FOLLOW TSCA 8(d) 40 CFR 47 FR 387: RCRA 40 CFR 261; CWA 311 (b) (2) (a) 40 CFR 116,117 GUIDELINES Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: 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, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY. INHALATION: REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY. NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, UPPER: 11.2% (% by volume) LOWER: 1.4% FLASH POINT: 79F METHOD USED: SETA FLASH EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL SPECIAL FIRE FIGHTING PROCEDURES: DO NOT ENTER CONFINED FIRE AREA WITHOUT FULL BUNKE

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. PRESENCE OF SOLVENTS MAY REQUIRE GROUNDING.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF FIRE OCCURS, SOLVENTS MAY PRODUCE EXCESSIVE PRESSURE. SEALED DRUMS MAY RUPTURE AND IGNITE. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND AND IGNITE BY ANY SOURCE OF IGNITION. NEVER USE A CUTTING OR WELDING TORCH NEAR CONTAINERS (EVEN EMPTY). ALL 5 GALLON AND LARGER CONTAINERS SHOULD BE GROUNDED BEFORE TRANSFERRING MATERIAL.

SECTION 6: 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 VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBENT MATERIAL SUCH AS CLAY AND PLACE IN DISPOSAL CONTAINERS. FLUSH AREA WITH WATER TO REMOVE RESIDUE.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE IN A 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. KEEP MATERIAL AWAY FROM ALL SOURCES OF IGNITION.

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 CAN NOT 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESSPIRATORY 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. VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TOXIC LEVEL VALUES. 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 COVERINGS AS NECESSARY SUCH AS APRON AND APPROPRIATE FOOTWEAR TO AVOID CONTACT WITH MATERIAL. WORK HYGIENIC PRACTICES: OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: LOW VISCOSITY LIQUID IN VARYING COLORS – SOLVENT ODOR BOILING POINT OR RANGE: 200 TO 279 F VAPOR DENSITY (AIR = 1): N/A SPECIFIC GRAVITY (H2O = 1): 1.4 EVAPORATION RATE: N/A SOLUBILITY IN WATER: NEGLIGIBLE

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

SECTION 10: 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, AND STATIC DISCHARGES ETC. INCOMPATIBILITY (MATERIAL TO AVOID): AVOID EPOXY CURING AGENTS IN UNCONTROLLED AMOUNTS AND STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

MAY FORM TOXIC CHEMICALS, CARBON DIOXIDE, CARBON MONOXIDE AND VARIOUS HYDROCARBONS ETC.. HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component CAS# 68082-29-1 and CAS# 112-24-3: Acute Oral Toxicity LD50 (rat) >2000 mg/kg (estimate); Acute Dermal Toxicity LD50 (rabbit) >2000 mg/kg (estimate); Component has caused allergic sensitization in humans.

Titanium Dioxide: Inhalation 4 h LC50 > 6.82 mg/l; Oral LD50 > 5000 mg/kg, rat; In February 2006, IARC listed titanium dioxide as possibly carcinogenic to humans Group 2B.

Component Xylene: Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Xylene may contain ethyl benzene, and toluene. Ethyl benzene has shown limited evidence of a carcinogenic effect.

Component CAS# 64742-95-6 Test on similar materials show a low order of acute oral and dermal toxicity. May cause eye irritation, may cause irritation on skin and mucous membranes.

Component CAS# 14807-96-6: Carcinogenic effects – this component may contain crystalline silica dust can cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystaline Silica is also listed by the NTP as a known human carcinogen **Component Butanol CAS# 71-36-3:** Acute Oral Toxicity LD50 = 790 mg/kg (rat) 4hr estimated. Acute Dermal Toxicity LD50 = 3400 mg/kg (rabbit) 4hr estimated. Acute toxicity of the Vapor LC50 = 8000 (rat) 4hr estimated

Component CAS# 90-72-2 and CAS# 71074-89-0: Oral LD50 (rat) 1200 mg/kg; Dermal LD50 (rabbit) 1280 mg/kg; Inhalation LC50 (rat) > 0.5 mg/liter/1 hour; Severe irritant to eyes of a rabbit. Severe irritant to the skin of a rabbit. Corrosive to the skin of a rabbit. **Component Carbon**: IARC lists carbon as a possible human carcinogen Category 2B. LD50 – Intravenous, mouse = 440 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Titanium Dioxide: Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitate (green algae) 61 mg/l @ 72h EC50; Daphnia magna (water flea) > 1000 mg/l @ 48h EC50

Component Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertabrates: Toxic 1 < LC/EC/IC50 <10mg/l, Algae: Toxic 1 < LC/EC/IC50 <10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

Component CAS# 64742-95-6 Toxic to aquatic organisms.

Component CAS# 14807-96-6: There is no data that suggests that crystalline silica is toxic to birds, fish, invertebrates, microorganisms or plants.

Component Butanol CAS# 71-36-3: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are more toxic.

Component CAS# 90-72-2 and CAS# 71074-89-0: Toxicity: LC50 fish 447.8 mg/l (96 hr). LC50 Crust 28.2 mg/l (48 hr). EC50 alga 34.8 mg/l (96 hr)

SECTION 13: WASTE DISPOSAL

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

SECTION 14: Transport Information

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTANOLS), 3, PG III IMO/IMDG: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTANOLS), 3, PG III

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component CAS# 68082-29-1 and CAS# 112-24-3 are on the TSCA list. Osha Hazard class – irritant, sensitizer. On the Canadian DSL, on the EINECS master inventory

Titanium Dioxide: Contains Proposition 65 Chemicals, is on the PA Hazardous substance list, is on the NJ right to know Regulated chemical list. Titanium Dioxide is on inventory or in compliance with EINECS, TSCA, AICS, DSL, ENCS (JP), KECI (KR), PICCS (PH) and INV (CN. **Component Xylene**:Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. (Maximum wt % for components of xylene are: M-Xylene CAS# 108-38-3 is 46%, P-Xylene CAS# 106-42-3 is 20%, Ethyl Benzene CAS# 100-41-4 is 19%, O-Xylene CAS# 95-47-6 is 16%... Xylene and its components are on the California Propostion 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS,

China, EINECS, ENCS, Korea, New Zealand, Phillipines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists Ethyl Benzene a component of xylene has been designated by IARC as a possible carcinogen to humans based on increased tumor incidence in laboratory animals. risk phrases R10 Flammable R20/21 Harmful by inhalation and in contact with skin, R38 iritating to skin, S25 Avoid contact with eyes.

Component CAS# 12001-26-2: On TSCA list. DSL Canada Listed and is considered an uncontrolled product. Although not on the California Proposition 65 list, it may contain ppm quantities of materials regulated under Californias safe drinking water and toxic enforcement act of 1986.

Component CAS# 64742-95-6 This product is a hazardous chemical . This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reathorization Act of 1986 and 40 CFR part 372 Component 1,2,4-trimethylbenzene CAS# 95-63-6 at < 42% and xylene CAS# 1330-20-7 at < 3.0%, Cumene CAS# 98-82-8 at < 2%, and Ethylbenzene CAS# 100-41-4 at < 0.40%.. This component contains chemicals on the California Proposition 65 list that may cause cancer or reproductive harm. Component is on the TSCA list as well as the AICS, DSL, ECL, EINECS, ENCS, IECSC and PICCS lists **Component Butanol CAS# 71-36-3:** Sara 313 – 40 CFR 372.65 chemical. CERCLA 40 CFR 302.4 (a) Chemical RQ=5000 pounds. On the

Component Butanol CAS# 71-36-3: Sara 313 – 40 CFR 372.65 chemical. CERCLA 40 CFR 302.4 (a) Chemical RQ=5000 pounds. On the TSCA list. On the DSL, AICS, ECL, EINECS, and ENCS lists. Butanol is on the Pennsylvania and New Jersey Right to Know lists

Component CAS# 14807-96-6 may contain Crystaline Silica (Silicon Dioxide) which is on the TSCA list. NTP list as a known human carcinogen, California proposition 65 list as a known carcinogen, Massachusetts Toxic Use Reduction Act list as toxic, Pennsylvania Worker and community right to know Act list as a hazardous substance.

Component CAS# 90-72-2 and 71074-89-0 EEC symbol – Harmful, harmful if swallowed (R22) Irritating to eyes and skin (R36/38). Component is on the Canada DSL, TSCA, EINECS, AICS, ENCS, ECL, SEPA, PICCS lists

Component is on the Canada DSL, TSCA, EINECS, AICS, ENCS, ECL, SEPA, PICC Componentacrylic polymers: Listed on TSCA and DSL.

Component Barium Sulfate: : Listed on TSCA and DSL.

Component C.I. Pigment violet 19 CAS# 1047-16-1: Listed on TSCA and DSL.

Component zinc salt of alkyl naphalene sulfonic acid: Listed on TSCA and DSL.

Component solvent naptha CAS# 64742-88-7: Listed on TSCA and DSL.

Component polyamine polyester polymer (non hazardous): Listed on TSCA and DSL.

Component C.I. Pigment blue 15 CAS# 147-14-8: Listed on TSCA and DSL.

Component C.I. Pigment blue CAS# 25869-00-5: Listed on TSCA and DSL.

Component CAS# 164741-65-7: Listed on TSCA and DSL.

Component C.I. Pigment green 17 CAS# 1308-38-9: Listed on TSCA and DSL.

Component Alkyl polyether phosphate ester-trade secret: Listed on TSCA and DSL

Component C.I. Pigment green CAS# 1328-53-6: Listed on TSCA and DSL.

Component C.I. Pigment green 36 CAS# 14302-13-7: : Listed on TSCA and DSL.

Component CAS# 4531-49-1: Listed on TSCA and DSL

Component CAS# 5567-15-7: Listed on TSCA and DSL. Listed on the Pennsylvania, New Jersey right to know lists

Component C.I. Pigment yellow 42 CAS# 51274-00-1 Listed on TSCA and DSL.

Component CAS# 15793-73-4: Listed on TSCA and DSL. Listed on the Pennsylvania, New Jersey right to know lists

Component C.I. Pigment red 101 CAS# 1309-37-1: Listed on TSCA and DSL.

Component C.I. Pigment red 3 CAS# 2425-85-6: Listed on TSCA and DSL.

Component aluminum silicate dehydrate CAS# 1332-58-7: Listed on TSCA and DSL.

Component mineral spirits CAS# 8052-41-3: Listed on TSCA and DSL.

Component C.I. Pigment red 187 CAS# 59487-23-9: Listed on TSCA and DSL.

Component Carbon: Contains Proposition 65 Chemicals .Carbon: is listed on TSCA and DSL Canada

SECTION 16: OTHER INFORMATION

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.

N/A = Not Available See Section 1 for date of preparation

SAFETY DATA SHEET (SDS) Section 1 Identification

| | Section 1. Iden | tification | | | |
|--|--|--|----------------------------------|--|--|
| Product identifi | er ARM707X-CM A | | | | |
| Other means of | identification ARM707X-CM A | | | | |
| Recommended u | ise and restrictions on use Floor Coating | | | | |
| Initial supplier i | dentifier Armorpoxy Inc. 1260 North Avenue, Plaint 888-755-7361 | field, NJ 07062 <u>info@armorpoxy.com</u> | T: | | |
| Emergency telep | bhone number/restriction on use Chemtrec 24 hour num | nber 800-424-9300 | | | |
| | Section 2. Hazard i | dentification | | | |
| Classification of | hazardous product (name of the category or subcategor | y of the hazard class) | | | |
| Skin irritation (C | ategory 2) | | | | |
| Sensitization – S | kin (Category 1) | | | | |
| Eye irritation (Ca | itegory 2A) | | | | |
| Hazardous to the | aquatic environment – Acute & Chronic (Category 2) | | | | |
| Information eler | ments (symbols, signal words, hazard statements and pre | ecautionary statements of the catego | ry/subcategory) | | |
| Warning H315 Causes skin irritation. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H401 Toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash hands/nails/face thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear gloves/protective clothing/eye protection. P302+P352 IF ON SKIN, Wash with plenty of water for several minutes. P333 + P313 IF SKIN irritation or rash occurs: Get medical attention. P362+P364 Take off contaminated clothing and wash it before reuse. 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 attention. P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations. Other hazards known None | | | | | |
| Charles | Section 5. Composition/infor | mation on ingredients | | | |
| Chemical name | (common name/synonyms) | CAS number or other | Concentration (%) | | |
| Alley alwaided at | bor | 68600.07.2 | < 10 | | |
| Aikyi giycidyi et | ner | 100.51 (| < 10 | | |
| Benzyi alconol | tatement - This safety data sheet provides concentration range(s) in | stead of the actual concentration(s) consider | > 10 | | |
| | Section 4 First-ai | d measures | fied trade secret(s). | | |
| Inhalation | IF INHALED: Remove person to fresh air and keep comf | ortable for breathing. Call a doctor if y | you feel unwell | | |
| Ingestion | IF SWALLOWED: Immediately call a doctor, DO NOT I | NDUCE VOMITING NEVER give a | nything by mouth if victim is | | |
| ingestion | rapidly losing consciousness, or is unconscious or convulsi of water. If vomiting occurs naturally, have victim lean fo | ng. Rinse mouth thoroughly with water rward to reduce risk of aspiration. | r. Have victim drink two glasses | | |
| Skin contact | IF ON SKIN: wash with plenty of water. (15-20 minutes) | IF SKIN irritation or rash occurs: Get | medical attention. Take off | | |
| | contaminated clothing and wash it before reuse. | | | | |
| Eye contact | IF IN EYES, Rinse cautiously with water for several minut | tes (15-20). Remove contact lenses, if p | present and easy to do. Continue | | |
| rinsing. If eye irritation persists: Get medical attention. | | | | | |
| Nost important symptoms and effects (acute or delayed) Causes skin irritation. | | | | | |
| Indication of miniculate medical attention/special treatment in an cases, call a doctor. Do not forget this document. | | | | | |
| Saca: fie hereade | Section 5. Fire-light | ing measures | | | |
| Specific nazarus | d of the hazardous product (hazardous combustion product) | | | | |
| Suitable and un | suitable extinguishing media | | | | |
| In case of fire II | se carbon dioxide, chemical powder agent and appropriate for | nam to extinguish surrounding product | ts. | | |
| Special protectiv | ve equipment and precautions for fire-fighters | sum to extinguish surrounding product | | | |
| During a fire irri | tating/toxic smoke and fumes may be generated. Do not enter | er fire area without proper protection | Firefighters should wear proper | | |
| protective equipm | ent and self-contained breathing apparatus with full facepiece. | . Shield personnel to protect from venti | ng, rupturing or bursting cans. | | |
| Move containers from fire area if it can be done without risk. Water spray may be useful in cooling equipment and cans exposed to heat and flame. | | | | | |

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment (See Section 8).

Methods and materials for containment and cleaning up

Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then place material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Precautions for safe handling

Section 7. Handling and storage

Wear gloves/protective clothing/eye protection/face protection.

Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure proper ventilation. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep away from heat, sparks and flame. Avoid generating high concentrations of dusts, vapours or mists. Keep away from incompatible materials (Section 10). Keep containers closed when not in use. Empty containers are always dangerous. Refer also to Section 8.

Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up. Store away from incompatible materials (Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Storage area should be clearly identified, clear of obstruction and accessible only to trained personnel. Inspect periodically for damage or leaks.

Section 8. Exposure controls/Personal protection

Control parameters (biological limit values or exposure limit values and source of those values)

Exposure limits: Dust – PEL-TWA 15 mg/m³ (total dust) & 5 mg/m³ (respirable fraction);

Appropriate engineering controls

Use under well-ventilated conditions. Local exhaust ventilation system is recommended to maintain concentrations of contaminants below exposure limits. Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Individual protection measures/personal protective equipment

Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown. Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations. Wear protective chemical splash goggles to prevent mists from entering the eyes. Wash hands/nails/face thoroughly after handling. Do not eat, drink or smoke when using this product. Practice good personal hygiene after using this material. Remove and wash contaminated work clothing before re-use.

| Section 9. Physical and chemical properties | | | | | |
|--|---|--|--|--|--|
| Appearance, physical state/colour Liquid | Vapour pressure Not available | | | | |
| Odour Characteristic | Vapour density Not available | | | | |
| Odour threshold Not available | Relative density 1.12 | | | | |
| pH Not available | Solubility Insoluble | | | | |
| Melting/freezing point Not available | Partition coefficient - n-octanol/water Not available | | | | |
| Initial boiling point/range Not available | Auto-ignition temperature Not available | | | | |
| Flash point >93°C | Decomposition temperature Not available | | | | |
| Evaporation rate Not available | Viscosity Not available | | | | |
| Flammability (solids and gases) Not available | VOC Not available | | | | |
| Upper and lower flammability/explosive limits Not available | Other None known | | | | |
| Section 10. Stability | and reactivity | | | | |
| Reactivity | | | | | |
| Does not react under the recommended storage and handling conditions prese | cribed. | | | | |
| Chemical stability | | | | | |
| Stable under the recommended storage and handling conditions prescribed. | | | | | |
| Possibility of hazardous reactions | | | | | |
| None known | | | | | |
| Conditions to avoid (static discharge, shock or vibration) | | | | | |
| None known | | | | | |
| Incompatible materials | | | | | |
| Oxidizing materials; etc. | | | | | |
| Hazardous decomposition products | | | | | |
| None known | | | | | |

| Section 11. Toxicological information | | | | | |
|--|--|--|--|--|--|
| Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact) | | | | | |
| Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. | | | | | |
| Symptoms related to the physical, chemical and toxicological characteristics | | | | | |
| Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing; | | | | | |
| Delayed and immediate effects (chronic effects from short-term and long-term exposure) | | | | | |
| Skin Sensitization - Possible; Respiratory Sensitization - No data available; Germ Cell Mutagenicity - No data available; Carcinogenicity - No | | | | | |
| ingredient listed by IARC, ACGIH, NTP or OSHA; Reproductive Toxicity - No data available; Specific Target Organ Toxicity - Single Exposure | | | | | |
| - No data available; Specific Target Organ Toxicity — Repeated Exposure - No data available; Aspiration Hazard - No data available; Health | | | | | |
| Hazards Not Otherwise Classified – No data available. | | | | | |
| Numerical measures of toxicity (ATE; LD ₅₀ & LC ₅₀) | | | | | |
| CAS 100-51-6 LD ₅₀ , Oral - Rat 1360 mg/kg; | | | | | |
| A I E not available in this document. | | | | | |
| Section 12. Ecological information | | | | | |
| Ecotoxicity (aquatic and terrestrial information) No data available for the product | | | | | |
| Persistence and degradability No data available | | | | | |
| Bioaccumulative potential No data available | | | | | |
| Mobility in soil No data available | | | | | |
| Other adverse effects Toxic to aquatic life. Toxic to aquatic life with long lasting effects. | | | | | |
| Section 13. Disposal considerations | | | | | |
| Information on safe handling for disposal/methods of disposal/contaminated packaging | | | | | |
| Dispose of contents/container into safe container in accordance with local, regional or national regulations. | | | | | |
| Section 14. Transport information | | | | | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations | | | | | |
| NOT REGULATED | | | | | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime) | | | | | |
| UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epichlorhydrin); Class 9; PG III; | | | | | |
| UN number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air) | | | | | |
| UN3082; ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epichlorhydrin); Class 9; PG III; | | | | | |
| Special precautions (transport/conveyance) May also be shipped as a LIMITED QUANTITY in accordance with TDG. | | | | | |
| Environmental hazards (IMDG or other) MARINE POLLUTANT | | | | | |
| Bulk transport (usually more than 450 L in capacity) Possible | | | | | |
| Section 15. Regulatory information | | | | | |
| Safety/health Canadian regulations specifics Refer to Section 2 for the appropriate classification. This product has been classified in accordance | | | | | |
| with the hazard criteria of the Hazardous Products Regulations (HPR). | | | | | |
| Environmental Canadian regulations specifics Refer to Section 3 for ingredient(s) of the DSL | | | | | |
| Safety/health/environmental outside regulations specifics | | | | | |
| United States OSHA information: This product is regulated according to OSHA (29 CFR). | | | | | |
| United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14. | | | | | |
| United States TCSA information: Refer to the ingredients listed in Section 3. | | | | | |

| | Section 16. Other information | | | | | |
|---|--|--|--|--|--|--|
| Date of the lates | st revision of the safety data sheet March 05, 2021 version 3 (NSS ENTREPRISE INC.) | | | | | |
| Corrections | Complete review | | | | | |
| References | Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS. | | | | | |
| Abbreviations | | | | | | |
| ACGIH | American Conference of Governmental Industrial Hygienists | | | | | |
| ATE | Acute toxicity estimate | | | | | |
| CAS | Chemical Abstract Service | | | | | |
| DSL | Domestic Substance List | | | | | |
| IARC | International Agency for Research on Cancer | | | | | |
| IATA | International Air Transport Association | | | | | |
| IMDG | International Maritime Dangerous Goods Code | | | | | |
| LC | Lethal concentration | | | | | |
| LD | Lethal Dosage | | | | | |
| NIOSH | National Institute for Occupational Safety and Health | | | | | |
| NTP | National Toxicology Program (U.S.A.) | | | | | |
| OSHA | Occupational Safety and Health Administration (U.S.A.) | | | | | |
| PEL | Permissible Exposure Limit | | | | | |
| STEL | Short-term Exposure Limit | | | | | |
| TDG | Transport of dangerous goods in Canada | | | | | |
| TLV | Threshold Limit Value | | | | | |
| TSCA | Toxic Substances Control Act | | | | | |
| TWA | Time Weighted Average | | | | | |
| WHMIS | Workplace Hazardous Materials Information System | | | | | |
| To the best of our k | nowledge, 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 the only hazards th | may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are at exist. | | | | | |

PRODUCT IDENTIFIER – ARM707X-CM A DATE & VERSION – MARCH 05, 2021 VERSION 03

SAFETY DATA SHEET (SDS)

| Product identifier ARM707X-CM B Recommended use and restrictions on use Floor Coating Initial supplier identifier Armorozyo Inc;; 1260 North Avenue, Plainfield, NJ 07062 info@armorpoxy.com Test8x-755-7361 Emergency telephone number/restriction on use Chemice 24 hour number 800-424-9300 Emergency telephone number/restriction on use Chemice 24 hour number 800-424-9300 Classification of hazardous product (anne of the category or subcategory of the hazard class) Acute toxicity or al (Category 1) Skin corrosion (Category 1) Section 2. Hazard identification Skin corrosion (Category 1) Signal words, hazard statements and precautionary statements of the category/subcategory) Skin corrosion (Category 1) Signal words, hazard statements and precautionary statements of the category/subcategory) Jognar Agandous to the aquatic environment – Acute & Chronic (Category 1) Information elements (symbols, signal words, hazard statements and precautionary statements of the category/subcategory) Jognar H314 (Causes severe skin hums and eye damage. H314 May cause an allergic skin reaction. H314 May cause an allergic skin reaction. H335 May cause respiratory irritation. H344 (Causes severe skin brons on fore use 1202 Do not handle until all safety precautions have been read and understood. P260 Do nor breathe daskin enviroscin a value is product. P271 Useono y uotd | | | | | Section 1. Identif | ication | |
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| Other means of identification IARM/07X-CM B Recommended use and restrictions on use Floor Coaling Initial supplier identifier Armoropoxy Inc;: 1260 North Avenue, Plainfield, NJ 07062 info@armorpoxy.com Timesency telephone number/restriction on use Chemitre: 24 hour number 800-424-9300 Classification of hazardous product (name of the category or subcategory of the hazard class) Acute toxicity oral (Category 1) Scin corresion (Category 1) Scin corresion (Category 1) Specific target organ toxicity - Single exposure (Category 3) Reproductive toxicity (Category 1) Hazardous to the aquatic environment - Acute & Chronic (Category 1) Taformation clearching 1/2 May cause server skin burns and cyc damage. H317 May cause ran allergie skin reaction. H316 Causes server skin burns and cyc damage. H317 May cause ran allergie skin reaction. H318 May cause ran allergie skin reaction. H316 May damage fertility or the andore the dild. H316 May damage factor and the winh long lasting effects. P201 Overy toxic to aquatic life with long lasting effects. P110 Very toxic to aquatic life with long lasting effects. P131 FMN (varia strate and the work) lace of maxing and which musing. P264 Wash handsinalisface thoroogly in after handling. P270 Do n | Product identifier | ARM70 | 7X-CM B | | | | |
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| H360 May damage fertility or the unborn child. H362 May cause harm to breast-fed children. H400 Very toxic to aquatic life H410 Very toxic to aquatic life with long lasting effects. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dusts or mists. P263 Avoid contact during pregnancy and while nursing. P264 Wash hands/nails/face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P312 Call a doctor if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P363 Wash contaminated clothing before reuse. P332 + P313 IF SKIN irritation or rash occurs: Get medical attention. P305 + P351 + P358 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a doctor. P308 + P313 IF exposed or concerned: Get medical attention. P391 Collect spillage. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations. Other hazards known None Chemical name (common name/synonyms) | H335 May cause resp | iratory irri | tation. | | | | |
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| H410 Very toxic to aquatic life with long lasting effects. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dusts or mists. P263 Avoid contact during pregnancy and while nursing. P264 Wash hands/nails/face thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection face protection. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P312 Call a doctor if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P363 Wash contaminated clothing before reuse. P332 + P313 IF SKIN irritation or rash occurs: Get medical 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. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P310 Immediately call a doctor. P308 + P313 IF exposed or concerned: Get medical attention. P391 Collect spillage. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations. Other hazards known None Epoxy adduct General name (common name/synonyms) CAS number or other Concentration (%) Renzyl alcohol 100-51-6 <10 | H400 Very toxic to ac | uatic life | | | | | |
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| Indext of the first of the | minutes. Remove con | minutes. Remove contact lenses if present and easy to do Continue rinsing $P304 + P340$ IF INHALED. Remove person to fresh air and been | | | | | |
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| Section 3. Composition/information on ingredients Other hazards known None Section 3. Composition/information on ingredients Chemical name (common mame/synonyms) CAS number or other Concentration (%) Epoxy adduct 10-30 Benzyl alcohol 100-51-6 < 10-30 Isophorone diamine 2855-13-2 10-30 Nonylphenol 84852-15-3 10-30 Polyoxypropylene diamine 9046-10-0 30-60 | P403 + P233 Store in | a well-ve | ntilated place. | Keen c | container tightly closed. P | 405 Store locked up. P501 Dispose | e of contents/container into safe |
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| Section 3. Composition/information on ingredientsChemical name (common name/synonyms)CAS number or otherConcentration (%)Epoxy adduct10-30Benzyl alcohol100-51-6<10 | Other hazards know | n Non | e | | 0 | | |
| Chemical name (common name/synonyms)CAS number or otherConcentration (%)Epoxy adduct10-30Benzyl alcohol100-51-6<10Isophorone diamine2855-13-210-30Nonylphenol84852-15-310-30Polyoxypropylene diamine9046-10-030-60 | | | Sec | tion 3 | 3. Composition/inform | ation on ingredients | |
| Epoxy adduct 10-30 Benzyl alcohol 100-51-6 <10 Isophorone diamine 2855-13-2 10-30 Nonylphenol 84852-15-3 10-30 Polyoxypropylene diamine 9046-10-0 30-60 | Chemical name (com | mon nan | e/synonyms) | | | CAS number or other | Concentration (%) |
| Eposy addit 10-30 Benzyl alcohol 100-51-6 <10 | Epoxy adduct | inton nan | ic/synonyms) | | | | 10-30 |
| Denzy atomot 100-51-0 < 10 Isophorone diamine 2855-13-2 10-30 Nonylphenol 84852-15-3 10-30 Polyoxypropylene diamine 9046-10-0 30-60 | Benzyl alcohol | | | | | 100-51-6 | < 10 |
| Isophotone diamine 2855-15-2 10-30 Nonylphenol 84852-15-3 10-30 Polyoxypropylene diamine 9046-10-0 30-60 | Isonhorona diamir- | | | | | 2955 12 2 | 10 20 |
| Nonyipinenoi 84852-15-3 10-30 Polyoxypropylene diamine 9046-10-0 30-60 | Negeticity and a second | | | | | 2033-13-2 | 10-30 |
| Polyoxypropylene diamine 9046-10-0 30-60 | Delesson 1 1 | | | | | 04632-13-3 | 10-30 |
| * Natement - This satety data sheet provides concentration rangels) instead of the actual concentration(s) considered trade secret(s) | roiyoxypropytene dia * Statan | nnne | afety data cheat | rovido | s concentration range(s) insta | 9040-10-0 | SU-OU |

| | Section 4. | First-aid measures | | | | | |
|--|---|--|--|--|--|--|--|
| Inhalation | IF INHALED: Remove person to fresh air and ke | eep comfortable for breathing. Call a doctor if you feel unwell. | | | | | |
| Ingestion | IF SWALLOWED: Immediately call a doctor. Do | O NOT INDUCE VOMITING NEVER give anything by mouth if victim is | | | | | |
| Ingestion | rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Have victim drink two glasses | | | | | | |
| GL: 4 4 | of water. If vomiting occurs naturally, have victin | m lean forward to reduce risk of aspiration. | | | | | |
| Skin contact | ontaminated clothing and wash it before reuse. | minutes) IF SKIN irritation or rash occurs: Get medical attention. Take off | | | | | |
| Eye contact | IF IN EYES, Rinse cautiously with water for seven | ral minutes (15-20). Remove contact lenses, if present and easy to do. Continue | | | | | |
| | rinsing. If eye irritation persists: Get medical atten | ntion. | | | | | |
| Most important | symptoms and effects (acute or delayed) C | auses severe skin burns and eye damage. | | | | | |
| Indication of imr | mediate medical attention/special treatment In | n all cases, call a doctor. Do not forget this document. | | | | | |
| | Section 5. Fi | re-fighting measures | | | | | |
| Specific hazards | of the hazardous product (hazardous combustio | on products) | | | | | |
| Carbon oxides and | d other irritant/toxic gases and fumes. | | | | | | |
| Suitable and uns | suitable extinguishing media | | | | | | |
| In case of fire: Us | se carbon dioxide, chemical powder agent and appro | opriate foam to extinguish surrounding products. | | | | | |
| Special protectiv | ve equipment and precautions for fire-fighters | | | | | | |
| During a fire, irrit | tating/toxic smoke and fumes may be generated. Do | o not enter fire area without proper protection. Firefighters should wear proper | | | | | |
| protective equipme | ent and self-contained breathing apparatus with full f | facepiece. Shield personnel to protect from venting, rupturing or bursting cans. | | | | | |
| Move containers f | from fire area if it can be done without risk. Water s | pray may be useful in cooling equipment and cans exposed to heat and flame. | | | | | |
| | Section 6. Accid | dental release measures | | | | | |
| Personal precaut | tions, protective equipment and emergency proc | redures | | | | | |
| Restrict access to | area until completion of clean-up. Ensure clean-up i | is conducted by trained personnel only. All persons dealing with clean-up should | | | | | |
| wear the appropria | ate protective equipment (See Section 8). | | | | | | |
| Methods and ma | aterials for containment and cleaning up | | | | | | |
| Ventilate area of release. Stop the leak if it can be done safely. Contain and absorb any spilled liquid concentrate with inert absorbent material, then | | | | | | | |
| place material into | o a container for later disposal (see Section 13). Con | ntaminated absorbent material may pose the same hazards as the spilled product. | | | | | |
| Notify the appropriate authorities as required. | | | | | | | |
| Section 7. Handling and storage | | | | | | | |
| Precautions for s | safe handling | | | | | | |
| Wear gloves/prote | ective clothing/eye protection/face protection. | | | | | | |
| Before handling, | it is very important that engineering controls are | operating, and that protective equipment requirements and personal hygiene | | | | | |
| measures are bein | ig followed. People working with this chemical show | uld be properly trained regarding its hazards and its safe use. Inspect containers | | | | | |
| for leaks before f | nandling. Label containers appropriately. Ensure p | proper ventilation. Avoid breatning dust/tume/gas/mist/vapours/spray. Avoid | | | | | |
| contact with eyes, | , skin and clothing. Keep away from heat, sparks an | nd flame. Avoid generating high concentrations of dusts, vapours of mists. Keep | | | | | |
| away from incom | ipatible materials (Section 10). Keep containers cl | losed when not in use. Empty containers are always dangerous. Refer also to | | | | | |
| Conditions for sa | afe storage including any incompatibilities | | | | | | |
| Store in a well-ve | entilated place. Keen container tightly closed. Keen | cool Store locked up Store away from incompatible materials (Section 10) | | | | | |
| Inspect all incomi | ing containers to make sure they are properly label | ed and not damaged. Storage area should be clearly identified clear of | | | | | |
| obstruction and ac | ccessible only to trained personnel. Inspect periodic | cally for damage or leaks. | | | | | |
| | Section 8. Exposure | controls/Personal protection | | | | | |
| Control paramet | ters (biological limit values or exposure limit val | ues and source of those values) | | | | | |
| Exposure limits: I | Dust – PEL-TWA 15 mg/m ³ (total dust) & 5 mg/m ³ | ³ (respirable fraction); | | | | | |
| Appropriate eng | ineering controls | | | | | | |
| Use under well-ve | entilated conditions. Local exhaust ventilation system | m is recommended to maintain concentrations of contaminants below exposure | | | | | |
| limits. Make emer | rgency eyewash stations, safety/quick-drench show | vers, and washing facilities available in work area. | | | | | |
| Individual protect | ction measures/personal protective equipment | | | | | | |
| Respiratory protect | ction is required if the concentrations are higher that | in the exposure limits. Use a NIOSH approved respirators if the exposure limits | | | | | |
| are unknown. Che | emically protective gloves (impervious), and other r | protective clothing to prevent prolonged or repeated skin contact, must be worn | | | | | |
| during all handlin | g operations. Wear protective chemical splash gogs | gles to prevent mists from entering the eves. Wash hands/nails/face thoroughly | | | | | |
| after handling. Do | o not eat, drink or smoke when using this product | t. Practice good personal hygiene after using this material. Remove and wash | | | | | |
| contaminated wor | rk clothing before re-use. | · · · · · · · · · · · · · · · · · · · | | | | | |

| | Section 9. Physical and c | hemical properties | | | | |
|--|---|----------------------------------|---|--|--|--|
| Appearance, physical state/colour | Liquid, clear | Vapour pressure | Not available | | | |
| Odour Characteristic | · | Vapour density Not available | | | | |
| Odour threshold Not available | | Relative density | 0.955 | | | |
| pH Not available | | Solubility Not av | ailable | | | |
| Melting/freezing point Not availa | able | Partition coefficien | t - n-octanol/water Not available | | | |
| Initial boiling point/range Not available | ailable | Auto-ignition temp | erature Not available | | | |
| Flash point > 93°C | | Decomposition tem | perature Not available | | | |
| Evaporation rate Not available | | Viscosity Not ava | ilable | | | |
| Flammability (solids and gases) No | lot available | VOC Not availa | ble | | | |
| Upper and lower flammability/explos | sive limits Not available | Other None know | Wn | | | |
| | Section 10. Stability | and reactivity | | | | |
| Reactivity | | und reactivity | | | | |
| Does not react under the recommended | storage and handling conditions press | cribed. | | | | |
| Chemical stability | storage and hunaming conditions press | | | | | |
| Stable under the recommended storage | and handling conditions prescribed | | | | | |
| Possibility of hazardous reactions | and handling conditions presenced. | | | | | |
| None known | | | | | | |
| Conditions to avoid (static discharge | shock or vibration) | | | | | |
| None known | , shock of vibration) | | | | | |
| Incompatible materials | | | | | | |
| Oxidizing materials: Acids: etc | | | | | | |
| Hazardous decomposition products | | | | | | |
| None known | | | | | | |
| | Section 11 Toxicologi | ical information | | | | |
| Information on the likely routes of ex | vnosura (inhalation ingestion skin s | and eve contact) | | | | |
| Harmful if swellowed Causes severe sk | sin huma and ave domage. May equip | and Cyc contact) | n May agus ragnizatory irritation May damage | | | |
| fertility or the unborn child May cause | harm to breast-fed children | an anergie skin reaction | 1. May cause respiratory initiation. May damage | | | |
| Symptoms related to the physical ch | emical and toxicological characteris | stics | | | | |
| Skin burn redness stinging pain: Evel | burn redness tearing: Digestive tract | hurn: Despiratory trac | t hurn coughing shortness of breath dizziness | | | |
| drawgings, naugos and handaches | buill, redness, tearing, Digestive tract | buill, Respiratory trac | t burn, cougning, shormess of breath, dizziness, | | | |
| Delayed and immediate effects (chron | nic offects from short-term and long | term exposure) | | | | |
| Skin Songitization Desgible: Despirate | and Critects if one short-term and long | Gorm Coll Mutagoniai | tu No data available: Carainaganiaitu No | | | |
| ingradiant listed by LAPC ACCIH NT | FD or OSHA: Poproductive Toxicity | Dessible: Specific Ter | ty – No data available; Carcinogenicity – No | | | |
| Possible: Specific Target Organ Toxicit | ty — Repeated Exposure – No data ax | vailable: Aspiration Ha | azard – No data available: Health Hazards Not | | | |
| Otherwise Classified – No data availabl | le | unuole, / Ispiration In | | | | |
| Numerical measures of toxicity (ATE | $E: LD_{50} \& LC_{50}$ | | | | | |
| CAS 9046-10-0 LDso Oral- Rat - 2885 | $\frac{3 \text{ mg/kg} \cdot \text{I} C_{50}}{3 \text{ mg/kg} \cdot \text{I} C_{50}}$ Inhalation - Rat - $8h > 100$ | 0.74 mg/l· L.Dso. Dern | nal- Rabbit - 2980 mg/kg: CAS 2855-13-2 LD50 | | | |
| Oral - Rat 1030 mg/kg ⁻ CAS 84852-15 | $5-3 \text{ LD}_{50} \text{ Oral} - \text{Rat} = 1246 \text{ mg/kg & }$ | LD ₅₀ Dermal - Rabbit | = 2040 mg/kg; CAS 100-51-6 LD ₅₀ Oral - Rat | | | |
| 1360 mg/kg. | | ED 30 Definition Raboli | 2010 mg/kg, 0115 100 51 0 ED30, 0141 Kat | | | |
| ATE not available in this document. | | | | | | |
| | Section 12. Ecologic | al information | | | | |
| Ecotoxicity (aquatic and terrestrial in | nformation) No data available for | the product | | | | |
| Persistence and degradability N | No data available | 1 | | | | |
| Bioaccumulative potential No da | ata available | | | | | |
| Mobility in soil No data available | e | | | | | |
| Other adverse effects Very toxic t | to aquatic life. Very toxic to aquatic li | fe with long lasting eff | fects. | | | |
| | Section 13. Disposal | considerations | | | | |
| Information on safe handling for disr | posal/methods of disposal/contamina | ated nackaging | | | | |
| Dispose of contents/container into safe | container in accordance with local re | gional or national regi | ilations | | | |
| Dispose of contents/container into sure | Section 14 Transno | rt information | | | | |
| IIN number: Proper shipping name: | Class(es): Packing group (PG) of th | e TDG Regulations | | | | |
| UN3267: CORROSIVE LIQUID BAS | SIC ORGANIC NOS (Isophoroped | liamine: Nonvinhenol) | CLASS 8: PG III | | | |
| UN number: Proper shinning name: | Class(es): Packing group (PC) of th | e IMDC (maritime) | , ethos 6, 10 m | | | |
| UN3267: CORROSIVE LIQUID BAS | SIC ORGANIC NOS (Isophoroped | liamine: Nonvlnhenol) | CLASS 8: PG III | | | |
| UN number: Proper shinning name: Class(as): Pooling group (DC) of the LATA (air) | | | | | | |
| UN3267 CORROSIVE LIOLID BAS | UN number; rroper suppling name; Class(es); racking group (rG) of the IATA (air) UN2267: COPPOSIVE LIOUID BASIC OPCANIC NOS (Joonhorong diaming) Nonvinhenally CLASS & DC III | | | | | |
| Special precautions (transport/conver | UN5207; CURRUSIVE LIQUID, BASIC, URGANIC, N.U.S. (Isophorone diamine; Nonyiphenoi); CLASS 8; PG III Special presentions (transport/conveyence) May also be chimed as a UNITED OLIANTITY in accordance with TDC | | | | | |
| Environmental hazards (IMDC or of | f (ther) MARINE POLITITANT | | | | | |
| Bully transport (usually more than 45 | 50 L in conscient) Describio | | | | | |
| Durk transport (usually more than 45 | SUL in capacity) Possible | | | | | |

| Section 15. Regulatory information | Section 15. Regulatory information | | | | | |
|--|--|--|--|--|--|--|
| Safety/health Canadian regulations specifics Refer to Section 2 for the appropriate classific | cation. This product has been classified in accordance | | | | | |
| with the hazard criteria of the Hazardous Prod | ucts Regulations (HPR). | | | | | |
| Environmental Canadian regulations specifics Refer to Section 3 for ingredient(s) of the I | DSL | | | | | |
| Safety/health/environmental outside regulations specifics | | | | | | |
| United States OSHA information: This product is regulated according to OSHA (29 CFR). | | | | | | |
| United States EPA (Environmental Protection Agency) information: 40 CFR Refer to the ingred | lients listed in Section 3 & Sections 12; 13 & 14. | | | | | |
| United States TCSA information: Refer to the ingredients listed in Section 3. | | | | | | |
| Section 16. Other information | | | | | | |
| Date of the latest revision of the safety data sheet March 05, 2021 version 3 (NSS ENTRE | PRISE INC.) | | | | | |
| Corrections Complete review | | | | | | |
| References Safety Data Sheets from manufacturer/supplier & from Canadian Centre for C | Occupational Health and Safety, CCOHS. | | | | | |
| Abbreviations | | | | | | |
| ACGIH American Conference of Governmental Industrial Hygienists | | | | | | |
| ATE Acute toxicity estimate | | | | | | |
| CAS Chemical Abstract Service | | | | | | |
| DSL Domestic Substance List | | | | | | |
| IARC International Agency for Research on Cancer | International Agency for Research on Cancer | | | | | |
| IATA International Air Transport Association | International Air Transport Association | | | | | |
| IMDG International Maritime Dangerous Goods Code | International Maritime Dangerous Goods Code | | | | | |
| LC Lethal concentration | Lethal concentration | | | | | |
| LD Lethal Dosage | | | | | | |
| NIOSH National Institute for Occupational Safety and Health | | | | | | |
| NTP National Toxicology Program (U.S.A.) | | | | | | |
| OSHA Occupational Safety and Health Administration (U.S.A.) | | | | | | |
| PEL Permissible Exposure Limit | | | | | | |
| STEL Short-term Exposure Limit | | | | | | |
| TDG Transport of dangerous goods in Canada | | | | | | |
| TLV Threshold Limit Value | | | | | | |
| TSCA Toxic Substances Control Act | | | | | | |
| TWA Time Weighted Average | | | | | | |
| WHMIS Workplace Hazardous Materials Information System | 1 11 AL 1 11 1 11 11 11 11 11 11 11 11 11 11 1 | | | | | |
| To the best of our knowledge, the information contained herein is accurate. However, neither the above named | d supplier nor any of its subsidiaries assumes any liability | | | | | |
| whatsocycl for the accuracy of completeness of the information contained herein. Final determination of st user, All materials may present unknown bazards and should be used with caution. Although cartain bazard | and any material is the sole responsibility of the | | | | | |
| the only hazards that exist. | s are deserved herein, we cannot guarantee that these are | | | | | |

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARM321x part A (colors) PRODUCT CODES: 321xA

MANUFACTURER: Armorpoxy Inc. STREET ADDRESS: 1260 North Avenue CITY, STATE, ZIP: Plainfield, NJ 07062

INFORMATION PHONE: 888-755-7361 EMERGENCY PHONE: Chemtrec 800-424-9300 FAX PHONE: (973) 453-8114

PREPARED BY: Armorpoxy Inc.

DATE REVISED: 1/22/19

Chemical Name or Class: Polyester polyol solution

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Flammable liquid category 3, Specific target organ toxicity – single exposue category 3, Acute oral toxicity category 4, Skin corrosion/irritation category 2, Serious eye irritation category 2A, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3 GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Exclamation Mark



Hazard Statements:

Warning: Flammable liquid and vapor.

Warning: May cause respiratory irritation Warning: Harmful if swallowed Warning: Causes skin irritation Warning: Causes serious eye irritation Warning: Harmful if inhaled Harmful to aquatic life. Precautionary statements: P102 Keep out of reach of children. P103 Read label before use P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well-ventilated area. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. P370 + P378 In case of fire: Use Foam, alcohol foam, CO2, dry chemical, water fog.for extinction. P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P312 If Inhaled, Call a POISON CENTER or doctor/physician if you feel unwell. P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P330 Rinse mouth. P302 + P352 IF ON SKIN: wash with plenty of soap and water. P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. 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. Storage: P403 + P235 Store in a well-ventilated place. Keep cool. PAGE 1 OF 11

P405 Store locked up.P233 Keep container tightly closed.Disposal:P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

Other Non-classifiable potential hazards Carcinogen category 2

HMIS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMIBILITY: 3

REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS EYES:

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

May cause irritation or allergic response. May cause defatting, dryness, cracking, rash 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 but usually reversible. 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: yes

ADDITIONAL CARCINOGENICITY INFORMATION:

May Contain Ethyl Benzene (IARC possible carcinogen). Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B). Some colors may contain carbon black - Explanation Of Carcinogenicity for carbon: IARC MONOGRAPHS ON EVALUATION OF CARCINOGENIC RISK OF CHEMICALS TO MAN, VOL 65, PG 149, 1996: GROUP 2B

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| NODEDIENT | 0.00.00 | | | | |
|---------------------------------------|------------------------------|----------------|------------|------------|----------|
| INGREDIENT | CAS NO. | OSHA PEL | ACGIH ILV | OSHA STEL | WEIGHT % |
| Propylene Glycol Monomethyl Ether | Acetate 108-65-6 | 50ppm | none | none | 10-30 |
| Saturated Polyester Polyol (non-haz | ardous) unknown | none | none | none | 10-30 |
| Polyester Polyol | 67815-82-1 | none | none | none | <30 |
| POLYESTER POLYOL | NJTSRNS0001C | NONE | NONE | NONE | <30 |
| Siloxanes and silicones, di-me react | tions products with silica (| non-hazardous) | | | |
| | 67762-90-7 | none | none | none | 0.1-1 |
| siloxanes and silicones, di-methyl (r | non-hazardous) | | | | |
| | 63148-62-9 | none | none | none | 0.1-1 |
| *Xylene | 1330-20-7 | 100 ppm | 100 ppm | 150 ppm | 0.5-6.0 |
| 2,6-Dimethyl-4-Heptanone | 108-83-8 | 25 ppm | 25 ppm | none | 0.1-1 |
| *Ethyl benzene | 100-41-4 | 100 ppm | 100 ppm | 125 ppm | <0.5 |
| polyalkylene glycol | 9038-95-3 | none | none | none | 0.1-1 |
| 4,6-dimethyl-2-heptanone | 19549-80-5 | none | none | none | 0.1-1 |
| Dibutylin Dilurate | 77-58-7 | 0.1mg / m3 | 0.1mg / m3 | 0.1mg / m3 | 0.1-1 |
| Cellulose Acetate Butyrate | 9004-36-8 | none | none | none | 0.1-1 |
| Methyl N-Amyl Ketone | 110-43-0 | 100 ppm | 50 ppm | none | 10-30 |
| Ethyl 3-Ethoxypropionate | 763-69-9 | none | none | none | 10-30 |
| Additive | NJTSRN 800963-5023 | none | none | none | 0.1-1 |
| Colors May Contain @ 10-30%: | | | | | |
| Titanium Dioxide | 13463-67-7 | 10mg/m3 | 10mg/m3 | 5mg/m3 | |
| *CARBON | 1333-86-4 | 3.5PPM | 3.4PPM | NONE | <1.0 |
| Acrylic polymers (non-hazardous) | trade secret | NONE | NONE | NONE | |
| C.I. Pigment violet 19 | 1047-16-1 | NONE | NONE | NONE | |
| Barium Sulfate | 7727-43-7 | 5 mg/m3 | 10 mg/m3 | NONE | |
| | | | <u>.</u> | ····· | |

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zinc salt of alkyl naphalene sulfonic acid

| | undisclosed | NONE | NONE | NONE |
|---------------------------------|-----------------|--------|--------|------|
| solvent naptha | 64742-88-7 | NONE | NONE | NONE |
| polyamine polyester polymer | (non hazardous) | NONE | NONE | NONE |
| C.I. Pigment blue 15 | 147-14-8 | NONE | NONE | NONE |
| C.I. Pigment Blue | 25869-00-5 | NONE | NONE | NONE |
| C11-C13 isoparaffin | 64741-65-7 | NONE | NONE | NONE |
| C.I. Pigment green 17 | 1308-38-9 | NONE | NONE | NONE |
| Alkyl polyether phosphate ester | trade secret | NONE | NONE | NONE |
| C.I. Pigment green 7 | 1328-53-6 | NONE | NONE | NONE |
| C.I. Pigment green 36 | 14302-13-7 | NONE | NONE | NONE |
| C.I. Pigment Yellow | 4531-49-1 | NONE | NONE | NONE |
| C.I. Pigment Yellow | 5567-15-7 | NONE | NONE | NONE |
| C.I. Pigment yellow 42 | 51274-00-1 | NONE | NONE | NONE |
| pigment orange | 15793-73-4 | NONE | NONE | NONE |
| C.I. Pigment red 101 | 1309-37-1 | NONE | NONE | NONE |
| C.I. Pigment red 3 | 2425-85-6 | NONE | NONE | NONE |
| aluminum silicate dehydrate | 1332-58-7 | NONE | NONE | NONE |
| mineral spirits | 8052-41-3 | 100ppm | 100ppm | NONE |
| C.I. Pigment red 187 | 59487-23-9 | NONE | NONE | NONE |
| | | | | |

SECTION 3 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. Xylene Stel= 150PPM (ACGIH) Methyl N-Amyl Ketone Stel (ACGIH)= 100PPM. Ethyly 3-Ethoxypropionate: USA country specific exposure limits have not been established or are not applicable. Chemical company exposure limit (TLV) 50ppm and (STEL) 100ppm are recommended. Canada, Ontario OEL (Ministry of Labor – Control of Exposure) TWA 50ppm.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4 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. 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 5: FIRE-FIGHTING MEASURES

| FLAMMABLE LIMITS IN AIR, | UPPER: not available |
|--------------------------|----------------------|
| (% BY VOLUME) | LOWER: not available |

FLASH POINT: 100F 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. 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 6: 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 7: 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 8: 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.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: low viscosity liquid with ketone solvent odor. BOILING POINT OR RANGE: 279 to 329F VAPOR DENSITY (AIR = 1): not available SPECIFIC GRAVITY (H2O = 1): 1.2 typical (varies by color) EVAPORATION RATE: not available SOLUBILITY IN WATER: negligible

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

SECTION 10: 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. INCOMPATIBILITY (MATERIAL TO AVOID): Can react Vigorously with strong oxidizing agents and phosphorous containing materials. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: carbon monoxide and carbon dioxide. HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Propylene Glycol Monomethyl Ether Acetate CAS# 108-65-6: LD50 Oral (rat) 8,532 mg/kg. LD50 Dermal (rabbit) >5000 mg/kg. LC0 Inhalation 6 hr (rat = 4345 ppm.Eye irritation, slightly Irritating. Dermal: non-sensitizer (guinea pig, maximization test). Repeated Dose Toxicity: 14 days, inhalation – NOAEL: 300ppm, LOAEL: 1000ppm (rat. Mutagenicity in vitro: Ames – negative (salmonella typhimurium, metabolic activation; with/without) Developmental Toxicity/Teratogenicity: Rat, female, inhalation, 6hrs/day 7 days a week; NOAEL (teratogenicity) . 4000 ppm – No Teratogenic effects observed at doses tested.

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Component Polyester Polyol CAS# 67815-82-1: LD50 Oral (rat) > 2500 mg/kg. Skin Irritation (rabbit) time 8 hr – slightly irritating. **Component CAS# 9038-95-3**: Acute oral toxicity LD50 = 5370 mg/kg (rat); Acute dermal toxicity LD50 = 21000 mg/kg (rabbit); Acute inhalation toxicity LC50 = 4670 ppm (rat); Skin irritation – slight irritation (rabbit); Eye irritation – mild irritation (rabbit)

Component CAS# 108-83-6: Acute oral toxicity LD50 = 5800 mg/kg (rat); Acute dermal toxicity LD50 = 16000 mg/kg (rabbit); Acute inhalation toxicity LC50 = 2000 ppm (rat); Skin irritation – slight irritation (rabbit); Eye irritation – mild eye irritation (rabbit)

Component Xylene: Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Xylene may contain ethyl benzene. Ethyl benzene has shown limited evidence of a carcinogenic effect.

Component Dibutylin Dilurate CAS# 77-58-7: ACUTE ORAL TOX (LD50, RAT) 3200.00 MG/KG. ACUTE DERMAL TOX (LD50, RABBIT) >2000 MG/KG (NO DEATHS). ACUTE INHAL TOX (LC50, RAT) >8.10 MG/L/1 HR. AMES TEST: NEG (ACTIVATED & NONACTIVATED) INDUST CHEMS SUC H AS THIS MATL W/ACUTE TOX VALUES SHOWN & WHOSE VAPS/MISTS ARE NOT LIKELY TO BE ENCOUNTERED BY HUMANS WHEN USED IN ANY REASONABLY FORESEEABLE MANNER WOULD NOT REQ TOXIC LBL ACCORD TO U.S. DOMESTIC & I NTERNATIONAL TRANSPORT REQS. IRRIT EFTS DAT: SEV IRRITANT TO EYES OF RABBIT. MOD IRRITANT TO SKIN OF RABBIT.

Component Cellulose Acetate Butyrate Ester CAS# 9004-36-8: Oral LD-50: (Rat): > 3,200 mg/kg (highest dose tested). Dermal LD-50: (Guinea Pig): > 1,000 mg/kg (highest dose tested). Skin Corrosion: (Guinea Pig, 24 h): slight. Skin sensitization: not a sensitizer. Component CAS# 110-43-0: Oral LD 50 (rat): 1600 mg/kg; Oral LD50 (mouse) 730 mg/kg; Inhalation LC50 (rat) 2000-4000 ppm, 4 hr. Dermal LD50 (rabbit) 10206 mg/kg; Dermal LD50 (guinea pig) >16200 mg/kg; Skin irritation (Rabbit) – slight to moderate; Eye irritation (rabbit) slight; Skin sensitization (human) none

Component 763-69-9: Acute oral toxicity LD50 = 5000 mg/kg (rat); acute dermal toxicity LD50 = 10000 mg/kg (rabbit). Component is a skin irritant.

Component additive NJTSRN 800963-5023: Acute oral toxicity: LD50 rat>8,000,000 mg/kg; skin irritation rabbit – no skin irritation **Component Titanium Dioxide**: Inhalation 4 h LC50 > 6.82 mg/l; Oral LD50 > 5000 mg/kg, rat; In February 2006, IARC listed titanium dioxide as possibly carcinogenic to humans Group 2B.

Component Carbon: IARC lists carbon as a possible human carcinogen Category 2B. LD50 - Intravenous, mouse = 440 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Propylene Glycol Monomethyl Ether Acetate CAS# 108-65-6: Biodegredation: aerobic, 100%, exposure time: 8 days. Acute and Prolonged Toxicity to fish LC50: 161 mg/l (fathead minnow), 96 hr. Acute Toxicity to Aquatic Invertebrates: EC50: 408 mg/l (water flea), 48 hr.

Component Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertabrates: Toxic 1 < LC/EC/IC50 <10mg/l, Algae: Toxic 1 < LC/EC/IC50 <10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

Component CAS# 110-43-0: BOD-5: 1770 mg/kg; BOD-20: 2000 mg/kg; COD: 2420 mg/kg. Acute Aquatic Effects: 96 hr LC50 (fathead minnow) 131 mg/l and 48 hr EC50 (daphnia) >90 mg/l (highest concentration tested)

Component 763-69-9: Possibly hazardous short term degradation products are not likely, however long term degradation products may arise. The product itself and its products of degradation are not toxic.

Component Titanium Dioxide: Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitate (green algae) 61 mg/l @ 72h EC50; Daphnia magna (water flea) > 1000 mg/l @ 48h EC50

SECTION 13: 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 14: Transport Information

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, ETHYL BENZENE), 3, PG III IMO/IMDG: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, ETHYL BENZENE), 3, PG III

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component Saturated Polyester Polyol (non-hazardous): Europe Inventory: Component is listed or exempted. Canada Inventory: Component is listed or exempted. Canadian NPRI not required. United States Inventory: Component is listed (TSCA 8b) or exempted. **Component Propylene Glycol Monomethyl Ether Acetate CAS# 108-65-6**: Listed on TSCA and DSL Component listed on the Pennsylvania, New Jersey and Massachusetts Right to know lists.

Component Polyester Polyol CAS# 67815-82-1: . : Listed on TSCA and DSL Component listed on the Pennsylvania, New Jersey and Massachusetts Right to know lists.

Component Siloxanes and silicones, di-me reactions products with silica: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Component siloxanes and silicones, di-methyl: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists. PAGE 5 OF 11

Component CAS# 108-83-6: Pennsylvania, Massachusetts and New Jersey Right to Know, (On TSCA, DSL lists) Component CAS# 9038-95-3 Pennsylvania and New Jersey Right to know (On TSCA, DSL Lists)

Component Xylene: Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. (Maximum wt % for components of xylene are: M-Xylene CAS# 108-38-3 is 46%, P-Xylene CAS# 106-42-3 is 20%, Ethyl Benzene CAS# 100-41-4 is 19%, O-Xylene CAS# 95-47-6 is 16%... Xylene and its components are on the California Propostion 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS, China, EINECS, ENCS, Korea, New Zealand, Phillipines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists Ethyl Benzene a component of xylene has been designated by IARC as a possible carcinogen to humans based on increased tumor incidence in laboratory animals. risk phrases R10 Flammable R20/21 Harmful by inhalation and in contact with skin, R38 iritating to skin, S25 Avoid contact with eyes.

Component Dibutylin Dilurate CAS# 77-58-7: Sara Title III Information: TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL COMPONENTS ARE INCL IN EPA TOXIC SUBSTANCES CTL ACT (TSCA) CHEM SUBSTANCE INVENTORY. OSHA HAZARD COMMUNICATION STD (29CFR1910.1200) HAZARD CLASS(ES): IRRITANT.KIDNEY TOXIN. EPA SARA TITLE III SECTION 312 (40CFR370) HAZARD CLASS. IMMED HLTH HAZARD. EPA SARA TITLE III 313 (40CFR372) TOXIC CHEMICALS "DE MINIMIS" LEVEL ARE NONE. Federal Regulatory Information: CANADA DSL-INCL ON INVENTORY. HAZARD CLASSIFICATION-CLASS D DIVISION 2B..(EEC). EINECS /ELINCS MASTER INVENTORY-INCLUDED ON INVENTORY. EC SYMBOL-HARMFUL (XN). EEC RISK (R) PHRASES-IRRITATING TO EYES & SKIN (R36/38). HARMFUL BY INHAL (R20). EEC SFTY PHRASES-IN CASE OF CONT W/EYES, RINSE IMMED W/PLENTY OF WATER & SEEK MED ADVICE (S26). AUSTRAILA-AICS-INCLUDED ON INVENTORY. State Regulatory Information: STATE REGS: PROPOSITION 65 SUBSTANCES (COMPONENT(S) KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY & SUBJECT TO WARNING & DISCHARGE REQUIREMENTS UNDER "SAFE DRINKING WATER A ND TOXIC ENFORCEMENT ACT OF 1986"):NONE.

Component Cellulose Acetate Butyrate Ester CAS# 9004-36-8: WHMIS (Canada) Status: noncontrolled, OSHA: nonhazardous, TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing. DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL. Any impurities present in this product are exempt from listing. AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS. MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act. Philippines Inventory (PICCS) : This product is listed on the Philippine Inventory or otherwise complies with PICCS. Inventory of Existing Chemical Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China: All compon

Component CAS# 110-43-0: On DSL and TSCA, EINECS, AICS, MITI and ECL lists.

Component 763-69-9: is on the TSCA EINECS and DSL Lists

Component additive NJTSRN 800963-5023: on TSCA List. Not a California Prop 65 chemical

Component Polyester Polyol NJTSRNS0001C: All components of this product are on the Canada DSL list and TSCA list.

Component Titanium Dioxide: Contains Proposition 65 Chemicals, is on the PA Hazardous substance list, is on the NJ right to know Regulated chemical List.

Titanium Dioxide is on inventory or in compliance with EINECS, TSCA, AICS, DSL, ENCS (JP), KECI (KR), PICCS (PH) and INV (CN. **Component Carbon**: Contains Proposition 65 Chemicals .Carbon: is listed on TSCA and DSL Canada

Componentacrylic polymers: Listed on TSCA and DSL.

Component Barium Sulfate: : Listed on TSCA and DSL.

Component C.I. Pigment violet 19 CAS# 1047-16-1: Listed on TSCA and DSL.

Component zinc salt of alkyl naphalene sulfonic acid: Listed on TSCA and DSL.

Component solvent naptha CAS# 64742-88-7: Listed on TSCA and DSL.

Component polyamine polyester polymer (non hazardous): Listed on TSCA and DSL.

Component C.I. Pigment blue 15 CAS# 147-14-8: Listed on TSCA and DSL.

Component C.I. Pigment blue CAS# 25869-00-5: Listed on TSCA and DSL.

Component CAS# 164741-65-7: Listed on TSCA and DSL.

Component C.I. Pigment green 17 CAS# 1308-38-9: Listed on TSCA and DSL.

Component Alkyl polyether phosphate ester-trade secret: Listed on TSCA and DSL

Component C.I. Pigment green CAS# 1328-53-6: Listed on TSCA and DSL.

Component C.I. Pigment green 36 CAS# 14302-13-7: : Listed on TSCA and DSL.

Component CAS# 4531-49-1: Listed on TSCA and DSL

Component CAS# 5567-15-7: Listed on TSCA and DSL. Listed on the Pennsylvania, New Jersey right to know lists

Component C.I. Pigment yellow 42 CAS# 51274-00-1 Listed on TSCA and DSL.

Component CAS# 15793-73-4: Listed on TSCA and DSL. Listed on the Pennsylvania, New Jersey right to know lists

Component C.I. Pigment red 101 CAS# 1309-37-1: Listed on TSCA and DSL.

Component C.I. Pigment red 3 CAS# 2425-85-6: Listed on TSCA and DSL.

Component aluminum silicate dehydrate CAS# 1332-58-7: Listed on TSCA and DSL.

Component mineral spirits CAS# 8052-41-3: Listed on TSCA and DSL.

Component C.I. Pigment red 187 CAS# 59487-23-9: Listed on TSCA and DSL.

SECTION 16: OTHER INFORMATION

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.

N/A = Not Available See Section 1 for date of preparation

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARM321x part B (colors) PRODUCT CODES: 321xB

MANUFACTURER: Armorpoxy Inc. STREET ADDRESS: 1260 North Avenue CITY, STATE, ZIP: Plainfield, NJ 07062

INFORMATION PHONE: 888-755-7361 EMERGENCY PHONE: Chemtrec 800-424-9300 FAX PHONE: (973) 453-8114

PREPARED BY: Armorpoxy Inc.

DATE REVISED: 1/22/19

Chemical Name or Class: isocyanate/solvent mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

HM GHS Classification: Flammable liquid category 3, Specific target organ toxicity single exposure category 3, Specific target organ toxicity following repeated exposure category 2, Respiratory sensitization category 1B, Skin corrosion/irritation category 2, skin sensitizer category 1B, Serious eye irritation category 2B, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3, Chronic hazards to aquatic environment category 3 GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Health Hazard Exclamation Mark



Hazard Statements:

Warning: Flammable liquid and vapor Warning: May cause respiratory irritation Warning: May cause damage to organs (auditory) through prolonged or repeated exposure Danger: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Warning: Causes skin irritation Warning: May cause an allergic skin reaction Warning: Causes serious eye irritation Warning: Harmful if inhaled Harmful to aquatic life Harmful to aquatic life with long lasting effects Precautionary statements: P102 Keep out of reach of children. P103 Read label before use P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P271 Use only outdoors or in a well-ventilated area. P260 Do not breathe dust/fume/gas/mist/vapours/spray P284 Wear respiratory protection P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves and clothing to prevent skin contact. P273 Avoid release to the environment. Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. P370 + P378 In case of fire: Use Foam, alcohol foam, CO2, dry chemical for extinction. P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P312 If inhaled, Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell

P302 + P352 IF ON SKIN: wash with plenty of soap and water

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P361+P364 Take off immediately all contaminated clothing and wash it before reuse

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PRODUCT CODE: 321x

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

P333 + P313 IF SKIN irritation or rash occurs: 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.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P233 Keep container tightly closed.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws IS HAZARD CLASSIFICATION

HEALTH: 2 FLAMMIBILITY: 3

PERSONAL PROTECTIVE EQUIPMENT: G

POTENTIAL HEALTH EFFECTS

EYES:

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

REACTIVITY: 1

SKIN:

May cause irritation, defatting, and dermattitis.

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, fatigue, nausea, headache, and possible unconsciousness. 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. Over-exposure to this material can cause cardiac abnormalities. Overexposure can possibly cause anemia. Liver abnormalities, kidney damage or eye damage. May cause asthma or other respiratory disorders, bronchitis, emphysema, hyperactivity and eczema.

Chronic Inhalation: as a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma), which will cause them to react to a later exposure to isocyanate at levels well below the TLV or MGL. These symptoms, which include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed up to several hours after exposure. Similar to many nonspecific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in several years. Chronic overexposure to isocyanates has been reported to cause lung damage, including decrease in lung function, which may be permanent. Sensitization may either be temporary or permanent. Acute skin Contact: Isocyanates react with the skin protein and moisture and can cause irritation. Symptoms of skin irritation may be reddening, swelling, rash, scaling, or blistering. Some persons may develop skin sensitization from skin contact. Cured material is difficult to remove.

Chronic Skin contact: Prolonged contact with the isocyanate can cause reddening, swelling, rash, scaling, or blistering. In those who have developed a skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material or even as a result of vapor-only exposure.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Respiratory conditions or other allergic response.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: YES Product may contain ethyl benzene as a component of xylene (IARC 2B)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| NORFRIENT | | | | | |
|---|----------------|----------|-----------|-----------|----------|
| INGREDIENT | <u>CAS NO.</u> | OSHA PEL | ACGIH TLV | OSHA STEL | WEIGHT % |
| Hopolymer of HDI | 28182-81-2 | 1 mg/m3 | NONE | NONE | 60-100 |
| *Xylene | 1330-20-7 | 100 PPM | 100 PPM | 150 PPM | 12 |
| *Ethyl benzene (as a component of xylene) | 100-41-4 | 100ppm | 100ppm | 125ppm | <2% |
| n-Butyl Acetate | 123-86-4 | 150 PPM | 150 PPM | 200 PPM | 7-13 |
| *Hexamethylene Diisocyanate (HDI) | 822-06-0 | NONE | .005 PPM | NONE | <1% |

*Indicates toxic chemical (s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372. XYLENE ACGIH STEL= 150PPM.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: FIRST AID MEASURES

Flush eves 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:

Do not induce vomiting. Keep person warm and consult a physician immediately. Give 1-2 cups or milk or water to drink. 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 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)

UPPER: not available LOWER: not available

FLASH POINT: 91F

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. Presence of solvents in product may require grounding. Remove all sources of ignition.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If fire occurs, solvents may produce excessive pressure. Sealed drums may rupture and ignite. Vapors are heavier than air and may travel along the ground and ignite by any source of ignition. During a fire, HDI vapors and other toxic gasses may be evolved. Containers may burst if contaminated with water. Vapor flashback to source is possible.

SECTION 6: 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 spark proof equipment, and the remainder with an absorbent such as clay and place in disposal containers. Contained air respirator may be necessary.

SECTION 7: 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.

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 8: 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.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Pale yellow liquids with solvent odor

BOILING POINT OR RANGE: 279 ° F

VAPOR DENSITY (AIR = 1): not available

SPECIFIC GRAVITY (H2O = 1): 1.1

EVAPORATION RATE: not available

SOLUBILITY IN WATER: negligible

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

SECTION 10: 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 degrees F may cause polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

Product: Acute Oral Toxicity LD50 >5000 mg/kg (rat) (estimated value) Acute Inhalation Toxicity LC50 390-453 mg/m3, 4h (rat) Acute Dermal Toxicity LD50 >5000 mg/kg (rabbit) Skin Irritation, rabbit, Draize, slightly irritating Eye Irritation, rabbit, Draize, slightly irritating Sensitization: Dermal - Sensitizer (Guinea Pig, Maximization Test). Dermal - Non-Sensitizer (Guinea Pig, Buehler). Sensitization Inhalation – Non-sensitizer (Guinea Pig) Repeated Dose Toxicity: 3 wks, inhalation NOAEL: 3.7-4.3 mg/m3 (rat) Repeated Dose Toxicity: 90 d, inhalation NOAEL: 3.3-3.4 mg/m3 (rat) Repeated Dose toxicity: Irritation to lungs and nasal cavity Mutagenicity: Genetic Toxicity in Vitro, Ames: negative (salmonell typhimurium, metabolic Activation: with, without) COMPONENT n-Butyl Acetate: Acute oral LD50 > 5000 mg/kg (rat), Acute Inhalation Toxicity: LC50 > 23.4 mg/l, 4hh (rat), Acute Dermal Toxicity LD50 > 5000 mg/kg (rabbit), Skin Irritation Gunea pig Acute Dermal Irritation exposure time 24h - Non-irritating, Skin Irritation Human patch test exposure time 48h - Non-irritating, Eye Irritation rabbit Draize exposure time 24h - slightly irritating, Sensitization dermal - nonsensitizing (guinea pig, human - maximization test). Repeated Dose Toxicity - 13 weeks inhalation NOAEL: 500 ppm (rat). Mutagenicity Genetic Toxicity in Vitro: Ames negative (Salmonella typhimurin, Metabolic Activation: with/without. COMPONENT Xylene: Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Xylene may contain ethyl benzene. Ethyl benzene has shown limited evidence of a carcinogenic effect. COMPONENT Ethyl Benzene: Acute Oral toxicity LD50: ca. 3500 mg/kg (rat); Acute inhalation LC50: 17.2 mg/l 4h (rat); Acute Dermal Toxicity: 17,800 mg/kg (rabbit); Skin Irritation rabbit Draize exposure time 24h - slightly irritating. Eye Irritation rabbit Draize - severely irritating. Sensitization dermal (human patch test) non-sensitizer. Repeated Dose toxicity 28 days inhalation NOAEL: 3.4 mg/l (rabbit). Mutagenicity Genetic Toxicity in Vitro: Ames: Negative (salmonella typhimurium, metabolic activation with/without). Carcinogenecity: Ethyl benzene was tested by inhalation exposure in mice and rats. Ibn mice, there was an increased incidence of lung adenomas in males and liver adenomas in females. In male rats, there was an increased incidence of renal tubule adenomas and carcinomas. Two Studies of workers potentially exposed to ethyl benzene in a production plant and a styrene polymerization plant, showed no excess cancer incidence and no excess cancer mortalitry during a 15 year follow-up. Toxicity to Reproduction/Fertility: Inhalation (monkey, male) Reproductive effects have been observed in animal studies, In a generation study, inhalation (rat/female) NOAEL (parental): 100ppm NOAEL (F2): 100ppm. Developmental Toxicity/Teratogenicity rat, female, inhalation, gestation, daily, NOAEL (teratogenicity): 100ppm (maternal): 100ppm. Tratogenetic effects seen only with maternal toxicity., Fetotoxicity seen only with maternal toxicity. Rabbit, female, inhalation, gestation, daily, NOAEL (teratogenicity) < 1000 mg/m3, NOAEL (maternal) < 1000 mg/m3.

SECTION 12: ECOLOGICAL INFORMATION

PRODUCT CODE: 321x

COMONENT Homopolymer of HDI: Biodegradation: 0%, Exposure time: 28 days, not readily biodegradable. Acute and Prolonged Tocicity to fish LC0 > 100 mg/l (zebra fish, 96 h). Acute toxicity to aquatic invertebrates: EC0 > 100 mg/l (water flea, 48 h. Toxicity to aquatic plants EC50 > 1000 mg/l (green algae, 72 h. Toxicity to Microorganisms: EC50 > 1000 mg/l (activated sludge microorganisms, 3 h).

COMPONENT n-Butyl Acetate: Biodegradation: aerobic, 98%, exposure time 28 days. Biochemical oxygen demand (BOD) 1020 mg/g. Chemical Oxygen demand (COD) 2,320 mg/g. Bioaccumulation: ca. 4-14 BCF. Acute and Prolonged Toxicity to Fish LC50: 18 mg/l (fathead Minnow, 96 h). Acute Toxicity to Aquatic Invertabrate EC50: 72.8 mg/l (water flea, 48 h). Toxicity to aquatic plants EC50: 670 mg/l, end point: growth (Crytomonad, 48 h). Toxicity to Microorganisms EC50: 959 mg/l (Pseudomonas putida, 48 h).

COMPONENT Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertabrates: Toxic 1 < LC/EC/IC50 < 10mg/l, Algae: Toxic 1 < LC/EC/IC50 < 10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

COMPONENT Ethyl Benzene: Biodegradation, Aerobic, 50%, Exposure time 28 days. .Biochemical Oxygen demand (BOD) 5 days, 2.8% and 35 days, 1780 mg/g. Bioaccumulation: Cyprinus carpio (Carp), 15 BCF. Acute and Prolonged Toxicity to Fish LC50: 12.1 mg/l (fathead minnow, 96 h). Acute Toxicity to Aquatic Invertebrates EC50: 1.8-2.9 mg/l (water flea, 48 h). Toxicity to Aquatic Plants EC50: 4.6 mg/l (green algae, 72 h). Toxicity to microorganisms EC50: 130 mg/l (activated sludge microorganisms, 48 hr).

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

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

SECTION 14: Transport Information

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTYL ACETATE), 3, PG III IMO/IMDG: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTYL ACETATE), 3, PG III

SECTION 15: REGULATORY INFORMATION

Product: OSHA HAZCOM STANDARD RATING: Hazardous. All components on TSCA

Massachusetts, New york, Pennsylvania Right to Know list includes the following components: Homopolymer of HDI CAS# 28182-81-2 @ 60-100%; n-Butyl Acetate CAS# 123-86-4 @ 10-20%; Xylene CAS# 1330-20-7 @ 7-13%; Ethyl Benzene CAS# 100-41-4 @1-5%.

Massachusetts, New york, Pennsylvania Special hazardous Substance includes the following components: n-Butyl Acetate CAS# 123-86-4 @ 10-20%; Xylene CAS# 1330-20-7 @ 7-13%; Ethyl Benzene CAS# 100-41-4 @1-5%; hexamethylene diisocyanate (HDI) CAS# 822-06-0 @ <0.6%.

California Prop 65: This product contains chemicals known to the State of California to be carcinogenic: Ethyl Benzene CAS# 100-41-4 @ 1-5%.

US EPA CERCLA Hazardous Substances (40 CFR 302): n-butyl acetate reportable quantity 5000 lbs

US EPA CERCLA Hazardous Substances (40 CFR 302): Xylene reportable quantity 100 lbs.

US EPA CERCLA Hazardous Substances (40 CFR 302): Ethyl Benzene reportable quantity 1000 lbs.

US EPA Emergency Planning and Community Right to Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.5) components, Xylene and Ethyl Benzene.

SECTION 16: OTHER INFORMATION

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.

N/A = Not Available See Section 1 for date of preparation

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARM321x part A (clear) PRODUCT CODES: 321xA

MANUFACTURER: Armorpoxy Inc. STREET ADDRESS: 1260 North Avenue CITY, STATE, ZIP: Plainfield, NJ 07062

INFORMATION PHONE: 888-755-7361 EMERGENCY PHONE: Chemtrec 800-424-9300 FAX PHONE: (973) 453-8114

PREPARED BY: Armorpoxy Inc.

DATE REVISED: 1/22/19

Chemical Name or Class: Polyester polyol solution

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Flammable liquid category 3, Specific target organ toxicity – single exposue category 3, Acute oral toxicity category 4, Skin corrosion/irritation category 2, Serious eye irritation category 2A, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3 GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Exclamation Mark



Hazard Statements:

Warning: Flammable liquid and vapor. Warning: May cause respiratory irritation Warning: Harmful if swallowed Warning: Causes skin irritation Warning: Causes serious eye irritation Warning: Harmful if inhaled Harmful to aquatic life. Precautionary statements: P102 Keep out of reach of children. P103 Read label before use P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/spray P271 Use only outdoors or in a well-ventilated area. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. P370 + P378 In case of fire: Use Foam, alcohol foam, CO2, dry chemical, water fog.for extinction. P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P312 If Inhaled, Call a POISON CENTER or doctor/physician if you feel unwell. P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P330 Rinse mouth. P302 + P352 IF ON SKIN: wash with plenty of soap and water. P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse. 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. Storage: P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.P233 Keep container tightly closed.Disposal:P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

HMIS HAZARD CLASSIFICATION HEALTH: 2 FLAMMIBILITY: 3

REACTIVITY: 0

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 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 but usually reversible. 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: yes

ADDITIONAL CARCINOGENICITY INFORMATION:

May Contain Ethyl Benzene (IARC possible carcinogen)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT_ | <u>CAS NO.</u> | <u>OSHA PEL</u> | ACGIH TLV | <u>OSHA STEL</u> | WEIGHT % |
|---|---------------------|-----------------|------------|------------------|----------|
| Propylene Glycol Monomethyl Ether Acetate | 108-65-6 | 50ppm | none | none | 10-30 |
| Saturated Polyester Polyol (non-hazardous) | unknown | none | none | none | 30-60 |
| Polyester Polyol | 67815-82-1 | none | none | none | 3-7 |
| Siloxanes and silicones, di-me reactions prod | ucts with silica (I | non-hazardous) | | | |
| - | 67762-90-7 | none | none | none | 0.1-1 |
| siloxanes and silicones, di-methyl (non-hazar | dous) | | | | |
| | 63148-62-9 | none | none | none | 0.1-1 |
| *Xylene | 1330-20-7 | 100 ppm | 100 ppm | 150 ppm | <0.5 |
| 2,6-Dimethyl-4-Heptanone | 108-83-8 | 25 ppm | 25 ppm | none | 0.1-1 |
| *Ethyl benzene | 100-41-4 | 100 ppm | 100 ppm | 125 ppm | <0.5 |
| polyalkylene glycol | 9038-95-3 | none | none | none | 0.1-1 |
| 4,6-dimethyl-2-heptanone | 19549-80-5 | none | none | none | 0.1-1 |
| Dibutylin Dilurate | 77-58-7 | 0.1mg / m3 | 0.1mg / m3 | 0.1mg / m3 | 0.1-1 |
| Cellulose Acetate Butyrate | 9004-36-8 | none | none | none | 0.1-1 |
| Methyl N-Amyl Ketone | 110-43-0 | 100 ppm | 50 ppm | none | 10-30 |
| Ethyl 3-Ethoxypropionate | 763-69-9 | none | none | none | 10-30 |
| Additive NJTSRN | 800963-5023 | none | none | none | 0.1-1 |
| Light stabilizer | Trade Secret | none | none | none | 0.1-1 |
| Benzotriazole Derivative, Branched Ester | Trade Secret | none | none | none | 0.1-1 |

SECTION 3 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. Xylene Stel= 150PPM (ACGIH) Methyl N-Amyl Ketone Stel (ACGIH)= 100PPM. Ethyly 3-Ethoxypropionate: USA country specific exposure limits have not been established or are not applicable. Chemical company exposure limit (TLV) 50ppm and (STEL) 100ppm are recommended. Canada, Ontario OEL (Ministry of Labor – Control of Exposure) TWA 50ppm.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4 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. 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 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: 100F 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. 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 6: 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 7: 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 8: 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.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: low viscosity liquid with ketone solvent odor. BOILING POINT OR RANGE: 279 to 329F VAPOR DENSITY (AIR = 1): not available SPECIFIC GRAVITY (H2O = 1): 1.0

EVAPORATION RATE: not available SOLUBILITY IN WATER: negligible

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

SECTION 10: 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. INCOMPATIBILITY (MATERIAL TO AVOID):

Can react Vigorously with strong oxidizing agents and phosphorous containing materials. HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: carbon monoxide and carbon dioxide. HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself. Component data:

Component Propylene Glycol Monomethyl Ether Acetate CAS# 108-65-6: LD50 Oral (rat) 8,532 mg/kg. LD50 Dermal (rabbit) >5000 mg/kg. LC0 Inhalation 6 hr (rat = 4345 ppm.Eye irritation, slightly Irritating. Dermal: non-sensitizer (guinea pig, maximization test). Repeated Dose Toxicity: 14 days, inhalation – NOAEL: 300ppm, LOAEL: 1000ppm (rat. Mutagenicity in vitro: Ames – negative (salmonella typhimurium, metabolic activation; with/without) Developmental Toxicity/Teratogenicity: Rat, female, inhalation, 6hrs/day 7 days a week; NOAEL (teratogenicity) . 4000 ppm – No Teratogenic effects observed at doses tested.

Component Polyester Polyol CAS# 67815-82-1: LD50 Oral (rat) > 2500 mg/kg. Skin Irritation (rabbit) time 8 hr – slightly irritating. **Component CAS# 9038-95-3**: Acute oral toxicity LD50 = 5370 mg/kg (rat); Acute dermal toxicity LD50 = 21000 mg/kg (rabbit); Acute inhalation toxicity LC50 = 4670 ppm (rat); Skin irritation – slight irritation (rabbit); Eye irritation – mild irritation (rabbit)

Component CAS# 108-83-6: Acute oral toxicity LD50 = 5800 mg/kg (rat); Acute dermal toxicity LD50 = 16000 mg/kg (rabbit); Acute inhalation toxicity LC50 = 2000 ppm (rat); Skin irritation – slight irritation (rabbit); Eye irritation – mild eye irritation (rabbit)

Component Xylene: Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Xylene may contain ethyl benzene. Ethyl benzene has shown limited evidence of a carcinogenic effect.

Component Dibutylin Dilurate CAS# 77-58-7: ACUTE ORAL TOX (LD50,RAT) 3200.00 MG/KG. ACUTE DERMAL TOX (LD50,RABBIT) >2000 MG/KG (NO DEATHS). ACUTE INHAL TOX (LC50, RAT) >8.10 MG/L/1 HR. AMES TEST: NEG (ACTIVATED & NONACTIVATED) INDUST CHEMS SUC H AS THIS MATL W/ACUTE TOX VALUES SHOWN & WHOSE VAPS/MISTS ARE NOT LIKELY TO BE ENCOUNTERED BY HUMANS WHEN USED IN ANY REASONABLY FORESEEABLE MANNER WOULD NOT REQ TOXIC LBL ACCORD TO U.S. DOMESTIC & I NTERNATIONAL TRANSPORT REQS. IRRIT EFTS DAT: SEV IRRITANT TO EYES OF RABBIT. MOD IRRITANT TO SKIN OF RABBIT.

Component Cellulose Acetate Butyrate Ester CAS# 9004-36-8: Oral LD-50: (Rat): > 3,200 mg/kg (highest dose tested). Dermal LD-50: (Guinea Pig): > 1,000 mg/kg (highest dose tested). Skin Corrosion: (Guinea Pig, 24 h): slight. Skin sensitization: not a sensitizer. Component CAS# 110-43-0: Oral LD 50 (rat): 1600 mg/kg; Oral LD50 (mouse) 730 mg/kg; Inhalation LC50 (rat) 2000-4000 ppm, 4 hr. Dermal LD50 (rabbit) 10206 mg/kg; Dermal LD50 (guinea pig) >16200 mg/kg; Skin irritation (Rabbit) – slight to moderate; Eye irritation (rabbit) slight; Skin sensitization (human) none

Component 763-69-9: Acute oral toxicity LD50 = 5000 mg/kg (rat); acute dermal toxicity LD50 = 10000 mg/kg (rabbit). Component is a skin irritant.

Component additive NJTSRN 800963-5023: Acute oral toxicity: LD50 rat>8,000,000 mg/kg; skin irritation rabbit – no skin irritation **Component(s) Light stabilizer CAS# Trade Secret and Benzotriazole Derivative, Branched Ester CAS# Trade Secret:** Acute oral toxicity:LD50 / oral / rat: > 2,000 mg/kg (Based on components). Skin irritation: Not expected to be a skin irritation: Not expected to be an eye irritation: Not expected to be a skin irritatio

Not expected to be an eye irritant. (Based on components). Skin Sensitization: Not expected to cause sensitization. (based on known component information). Subchronic Toxicty: Information on: Benzotriazole Derivative, Branched Ester

In a 14-day study, rats were administered the active ingredient at 0, 10, 100, or 1,000 mg/kg by gavage. The 100 and 1,000 mg/kg dose levels were found to cause elevated serum liver enzyme levels and enlarged livers. The no observable effect level (NOEL) was 10 mg/kg. In a 28-day study, rats were administered the active ingredient at 0, 2, 50, and 500 mg/kg by gavage. No treatment-related clinical or neurological signs oftoxicity or mortalities were recorded. Treatment-related effects, including mild anemia and toxic effects in the liver, were seen. Slight activity of the thyroid gland was also recorded and considered a secondaryresponse to the effects in the liver. The no observable effect level (NOEL) was 2 mg/kg.Information on: Decanedioic acid, bis(2,2,6,6-tetramethyl-4-piperidinyl)ester, reaction products with tert-Bu hydroperoxide and octane In a 28-day study, rats were administered daily oral doses of 10, 100 or 1000 mg/kg/day. Males only in the 1000 mg/kg dose group exhibited a reversible, minor effect on prothrombin time, as well as effects on

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The formation and development of blood cells in the liver that were not totally reversed by the two-week recovery period. The no observable effect level (NOEL) was determined as 100 mg/kg in the males and 1000 mg/kg in the females. piperidinyl)ester, reaction products with tert-Bu hydroperoxide and octane Information on: Decanedioic acid, bis(2,2,6,6-tetramethyl-4- piperidinyl)ester, reaction products with tert-Bu hydroperoxide and octane. Genetic toxicity: Non-mutagenic (based on composition).

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component Propylene Glycol Monomethyl Ether Acetate CAS# 108-65-6: Biodegredation: aerobic, 100%, exposure time: 8 days. Acute and Prolonged Toxicity to fish LC50: 161 mg/l (fathead minnow), 96 hr. Acute Toxicity to Aquatic Invertebrates: EC50: 408 mg/l (water flea), 48 hr.

Component Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertabrates: Toxic 1 < LC/EC/IC50 < 10mg/l, Algae: Toxic 1 < LC/EC/IC50 < 10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

Component CAS# 110-43-0: BOD-5: 1770 mg/kg; BOD-20: 2000 mg/kg; COD: 2420 mg/kg. Acute Aquatic Effects: 96 hr LC50 (fathead minnow) 131 mg/l and 48 hr EC50 (daphnia) >90 mg/l (highest concentration tested)

Component 763-69-9: Possibly hazardous short term degradation products are not likely, however long term degradation products may arise. The product itself and its products of degradation are not toxic.

SECTION 13: 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 14: Transport Information

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, ETHYL BENZENE), 3, PG III IMO/IMDG: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, ETHYL BENZENE), 3, PG III

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Component Saturated Polyester Polyol (non-hazardous): Europe Inventory: Component is listed or exempted. Canada Inventory: Component is listed or exempted. Canadian NPRI not required. United States Inventory: Component is listed (TSCA 8b) or exempted. **Component Propylene Glycol Monomethyl Ether Acetate CAS# 108-65-6**: Listed on TSCA and DSL Component listed on the Pennsylvania, New Jersey and Massachusetts Right to know lists.

Component Polyester Polyol CAS# 67815-82-1: .: Listed on TSCA and DSL Component listed on the Pennsylvania, New Jersey and Massachusetts Right to know lists.

Component Siloxanes and silicones, di-me reactions products with silica: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists.

Component siloxanes and silicones, di-methyl: Included on TSCA, EINECS, MITI, ACOIN, and Canadian DSL inventory or lists. Component CAS# 108-83-6: Pennsylvania, Massachusetts and New Jersey Right to Know, (On TSCA, DSL lists)

Component CAS# 9038-95-3 Pennsylvania and New Jersey Right to know (On TSCA, DSL Lists)

Component Xylene: Xylene contains EPCRA section 313 chemicals subject to the reporting requirements of the emergency planning and community right to know act of 1968. (Maximum wt % for components of xylene are: M-Xylene CAS# 108-38-3 is 46%, P-Xylene CAS# 106-42-3 is 20%, Ethyl Benzene CAS# 100-41-4 is 19%, O-Xylene CAS# 95-47-6 is 16%... Xylene and its components are on the California Propostion 65 list for developmental toxicity, Reproductive toxicity and carcinogen list. Ingredients are on the TSCA list, DSL Canada, AICS, China, EINECS, ENCS, Korea, New Zealand, Phillipines inventory lists and on the Massachusetts, New Jersey, Pennsylvania right to know lists Ethyl Benzene a component of xylene has been designated by IARC as a possible carcinogen to humans based on increased tumor incidence in laboratory animals. risk phrases R10 Flammable R20/21 Harmful by inhalation and in contact with skin, R38 iritating to skin, S25 Avoid contact with eyes.

Component Dibutylin Dilurate CAS# 77-58-7: Sara Title III Information: TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL COMPONENTS ARE INCL IN EPA TOXIC SUBSTANCES CTL ACT (TSCA) CHEM SUBSTANCE INVENTORY. OSHA HAZARD COMMUNICATION STD (29CFR1910.1200) HAZARD CLASS(ES): IRRITANT.KIDNEY TOXIN. EPA SARA TITLE III SECTION 312 (40CFR370) HAZARD CLASS. IMMED HLTH HAZARD. EPA SARA TITLE III 313 (40CFR372) TOXIC CHEMICALS "DE MINIMIS" LEVEL ARE NONE. Federal Regulatory Information: CANADA DSL-INCL ON INVENTORY. HAZARD CLASSIFICATION-CLASS D DIVISION 2B..(EEC). EINECS /ELINCS MASTER INVENTORY-INCLUDED ON INVENTORY. HAZARD CLASSIFICATION-CLASS D DIVISION 2B..(EEC). EINECS /ELINCS MASTER INVENTORY-INCLUDED ON INVENTORY. EEC SYMBOL-HARMFUL (XN). EEC RISK (R) PHRASES-IRRITATING TO EYES & SKIN (R36/38). HARMFUL BY INHAL (R20). EEC SFTY PHRASES-IN CASE OF CONT W/EYES, RINSE IMMED W/PLENTY OF WATER & SEEK MED ADVICE (S26). AUSTRAILA-AICS-INCLUDED ON INVENTORY. State Regulatory Information: STATE REGS: PROPOSITION 65 SUBSTANCES (COMPONENT(S) KNOWN TO STATE OF CALIFORNIA TO CAUSE CANCER AND/OR REPRODUCTIVE TOXICITY & SUBJECT TO WARNING & DISCHARGE REQUIREMENTS UNDER "SAFE DRINKING WATER A ND TOXIC ENFORCEMENT ACT OF 1986"):NONE.

Component Cellulose Acetate Butyrate Ester CAS# 9004-36-8: WHMIS (Canada) Status: noncontrolled, OSHA: nonhazardous, TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing. DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL.

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Any impurities present in this product are exempt from listing. AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS. MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification. ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act. Philippines Inventory (PICCS) : This product is listed on the Philippine Inventory or otherwise complies with PICCS. Inventory of Existing Chemical Substances in China: All components are listed on the Inventory of Existing Chemicals Substances in China (IECSC) or are covered under a polymer exemption.

Component CAS# 110-43-0: On DSL and TSCA, EINECS, AICS, MITI and ECL lists.

Component 763-69-9: is on the TSCA EINECS and DSL Lists

Component additive NJTSRN 800963-5023: on TSCA List. Not a California Prop 65 chemical

Component(s) Light stabilizer CAS# Trade Secret and Benzotriazole Derivative, Branched Ester CAS# Trade Secret:

Canada: Domestic Substances List (DSL): All components either exempt or listed on the DSL. This material does not contain any hazardous components that are reportable according to WHMIS criteria. US: Toxic Substances Control Act (TSCA): All component(s) comprising this product are either exempt or listed on the TSCA inventory

SECTION 16: OTHER INFORMATION

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.

N/A = Not Available See Section 1 for date of preparation

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARM321x part B (clear) PRODUCT CODES: 321xB

MANUFACTURER: Armorpoxy Inc. STREET ADDRESS: 1260 North Avenue CITY, STATE, ZIP: Plainfield, NJ 07062

INFORMATION PHONE: 888-755-7361 EMERGENCY PHONE: Chemtrec 800-424-9300 FAX PHONE: (973) 453-8114

PREPARED BY: Armorpoxy Inc.

DATE REVISED: 1/22/19

Chemical Name or Class: isocyanate/solvent mixture

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Flammable liquid category 3, Specific target organ toxicity single exposure category 3, Specific target organ toxicity following repeated exposure category 2, Respiratory sensitization category 1B, Skin corrosion/irritation category 2, skin sensitizer category 1B, Serious eye irritation category 2B, Acute toxicity inhalation category 4, Acute hazard to aquatic environment category 3, Chronic hazards to aquatic environment category 3 GHS Label Elements and Precautionary Statements:

Label Elements: Flame, Health Hazard Exclamation Mark



Hazard Statements:

Warning: Flammable liquid and vapor Warning: May cause respiratory irritation Warning: May cause damage to organs (auditory) through prolonged or repeated exposure Danger: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Warning: Causes skin irritation Warning: May cause an allergic skin reaction Warning: Causes serious eye irritation Warning: Harmful if inhaled Harmful to aquatic life Harmful to aquatic life with long lasting effects Precautionary statements: P102 Keep out of reach of children. P103 Read label before use P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/.../equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P280 Wear protective gloves/protective clothing/eye protection/face protection. P271 Use only outdoors or in a well-ventilated area. P260 Do not breathe dust/fume/gas/mist/vapours/spray P284 Wear respiratory protection P264 Wash hands thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves and clothing to prevent skin contact. P273 Avoid release to the environment. Response P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower. P370 + P378 In case of fire: Use Foam, alcohol foam, CO2, dry chemical for extinction. P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P312 If inhaled, Call a POISON CENTER or doctor/physician if you feel unwell.

P314 Get medical advice/attention if you feel unwell

P302 + P352 IF ON SKIN: wash with plenty of soap and water

P312 Call a POISON CENTER or doctor/physician if you feel unwell

P361+P364 Take off immediately all contaminated clothing and wash it before reuse

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PRODUCT CODE: 321x

PERSONAL PROTECTIVE EQUIPMENT: G

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

P333 + P313 IF SKIN irritation or rash occurs: 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.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P233 Keep container tightly closed.

Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

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HMIS HAZARD CLASSIFICATION

| HEALTH: 2 | FLAMMIBILITY: 3 | REACTIVITY: |
|-----------|-----------------|-------------|
| | | |

POTENTIAL HEALTH EFFECTS

EYES:

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

May cause irritation, defatting, and dermattitis.

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, fatigue, nausea, headache, and possible unconsciousness. 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. Over-exposure to this material can cause cardiac abnormalities. Overexposure can possibly cause anemia. Liver abnormalities, kidney damage or eye damage. May cause asthma or other respiratory disorders, bronchitis, emphysema, hyperactivity and eczema.

Chronic Inhalation: as a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma), which will cause them to react to a later exposure to isocyanate at levels well below the TLV or MGL. These symptoms, which include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed up to several hours after exposure. Similar to many nonspecific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air, or other irritants. This increased lung sensitivity can persist for weeks and in several years. Chronic overexposure to isocyanates has been reported to cause lung damage, including decrease in lung function, which may be permanent. Sensitization may either be temporary or permanent. Acute skin Contact: Isocyanates react with the skin protein and moisture and can cause irritation. Symptoms of skin irritation may be reddening, swelling, rash, scaling, or blistering. Some persons may develop skin sensitization from skin contact. Cured material is difficult to remove.

Chronic Skin contact: Prolonged contact with the isocyanate can cause reddening, swelling, rash, scaling, or blistering. In those who have developed a skin sensitization, these symptoms can develop as a result of contact with very small amounts of liquid material or even as a result of vapor-only exposure.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory conditions or other allergic response. CARCINOGENICITY OSHA: NO NTP: NO IARC: YES Product may contain ethyl benzene as a component of xylene (IARC 2B)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENT_ | <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/m3 | NONE | NONE | 60-100 |
| *Xylene | 1330-20-7 | 100 PPM | 100 PPM | 150 PPM | 12 |
| *Ethyl benzene (as a component of xylene) | 100-41-4 | 100ppm | 100ppm | 125ppm | <2% |
| n-Butyl Acetate | 123-86-4 | 150 PPM | 150 PPM | 200 PPM | 7-13 |
| *Hexamethylene Diisocyanate (HDI) | 822-06-0 | NONE | .005 PPM | NONE | <1% |

*Indicates toxic chemical (s) subject to the reporting requirements of section 313 Title III and of 40 CFR 372. XYLENE ACGIH STEL= 150PPM.

Note: Ingredients listed without percentages, the percentages are considered a trade secret.

SECTION 4: 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:

Do not induce vomiting. Keep person warm and consult a physician immediately. Give 1-2 cups or milk or water to drink. 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 5: FIRE-FIGHTING MEASURES

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

FLASH POINT: 91F

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. Presence of solvents in product may require grounding. Remove all sources of ignition. UNUSUAL FIRE AND EXPLOSION HAZARDS:

If fire occurs, solvents may produce excessive pressure. Sealed drums may rupture and ignite. Vapors are heavier than air and may travel along the ground and ignite by any source of ignition. During a fire, HDI vapors and other toxic gasses may be evolved. Containers may burst if contaminated with water. Vapor flashback to source is possible.

SECTION 6: 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 spark proof equipment, and the remainder with an absorbent such as clay and place in disposal containers. Contained air respirator may be necessary.

SECTION 7: 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. 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 8: 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.

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.

SEE SECTION THREE FOR OCCPATIONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Pale yellow liquids with solvent odor

BOILING POINT OR RANGE: 279 º F

VAPOR DENSITY (AIR = 1): not available

SPECIFIC GRAVITY (H2O = 1): 1.1

EVAPORATION RATE: not available

SOLUBILITY IN WATER: negligible

Odor Threshhold: N/A pH: N/A Melting point/freezing point: N/A Vapor Pressure: N/A Auto Ignition Temperature: N/A Partition Coefficient: n-octanol/water: N/A Decomposition Temperature: N/A

SECTION 10: 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 degrees F may cause polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

Product: Acute Oral Toxicity LD50 >5000 mg/kg (rat) (estimated value) Acute Inhalation Toxicity LC50 390-453 mg/m3, 4h (rat) Acute Dermal Toxicity LD50 >5000 mg/kg (rabbit) Skin Irritation, rabbit, Draize, slightly irritating Eye Irritation, rabbit, Draize, slightly irritating Sensitization: Dermal - Sensitizer (Guinea Pig, Maximization Test). Dermal - Non-Sensitizer (Guinea Pig, Buehler). Sensitization Inhalation - Non-sensitizer (Guinea Pig) Repeated Dose Toxicity: 3 wks, inhalation NOAEL: 3.7-4.3 mg/m3 (rat) Repeated Dose Toxicity: 90 d, inhalation NOAEL: 3.3-3.4 mg/m3 (rat) Repeated Dose toxicity: Irritation to lungs and nasal cavity Mutagenicity: Genetic Toxicity in Vitro, Ames: negative (salmonell typhimurium, metabolic Activation: with, without) COMPONENT n-Butyl Acetate: Acute oral LD50 > 5000 mg/kg (rat), Acute Inhalation Toxicity: LC50 > 23.4 mg/l, 4hh (rat), Acute Dermal Toxicity LD50 > 5000 mg/kg (rabbit), Skin Irritation Gunea pig Acute Dermal Irritation exposure time 24h - Non-irritating, Skin Irritation Human patch test exposure time 48h - Non-irritating, Eye Irritation rabbit Draize exposure time 24h - slightly irritating, Sensitization dermal - nonsensitizing (guinea pig, human - maximization test). Repeated Dose Toxicity - 13 weeks inhalation NOAEL: 500 ppm (rat). Mutagenicity Genetic Toxicity in Vitro: Ames negative (Salmonella typhimurin, Metabolic Activation: with/without. COMPONENT Xylene: Inhalation LC50 26800ppm, Skin LD50 2000 mg/kg, Ingestion LD50 4.3 g/kg. Exposure may effect skin, eye, liver, kidney, nervous system, respiratory system and lungs. High concentrations may lead to nervous system effects. Repeated overexposure has produced toxic effects in developing and young laboratory animals. Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal. Xylene may contain ethyl benzene. Ethyl benzene has shown limited evidence of a carcinogenic effect. COMPONENT Ethyl Benzene: Acute Oral toxicity LD50: ca. 3500 mg/kg (rat); Acute inhalation LC50: 17.2 mg/l 4h (rat); Acute Dermal Toxicity: 17,800 mg/kg (rabbit); Skin Irritation rabbit Draize exposure time 24h - slightly irritating. Eye Irritation rabbit Draize - severely irritating. Sensitization dermal (human patch test) non-sensitizer. Repeated Dose toxicity 28 days inhalation NOAEL: 3.4 mg/l (rabbit). Mutagenicity Genetic Toxicity in Vitro: Ames: Negative (salmonella typhimurium, metabolic activation with/without). Carcinogenecity: Ethyl benzene was tested by inhalation exposure in mice and rats. Ibn mice, there was an increased incidence of lung adenomas in males and liver adenomas in females. In male rats, there was an increased incidence of renal tubule adenomas and carcinomas. Two Studies of workers potentially exposed to ethyl benzene in a production plant and a styrene polymerization plant, showed no excess cancer incidence and no excess cancer mortalitry during a 15 year follow-up. Toxicity to Reproduction/Fertility: Inhalation (monkey, male) Reproductive effects have been observed in animal studies, In a generation study, inhalation (rat/female) NOAEL (parental): 100ppm NOAEL (F2): 100ppm. Developmental Toxicity/Teratogenicity rat, female, inhalation, gestation, daily, NOAEL (teratogenicity): 100ppm (maternal): 100ppm. Tratogenetic effects seen only with maternal toxicity., Fetotoxicity seen only with maternal toxicity. Rabbit, female, inhalation, gestation, daily, NOAEL (teratogenicity) < 1000 mg/m3, NOAEL (maternal) < 1000 mg/m3.

SECTION 12: ECOLOGICAL INFORMATION

COMONENT Homopolymer of HDI: Biodegradation: 0%, Exposure time: 28 days, not readily biodegradable. Acute and Prolonged Tocicity to fish LC0 > 100 mg/l (zebra fish, 96 h). Acute toxicity to aquatic invertebrates: EC0 > 100 mg/l (water flea, 48 h. Toxicity to aquatic plants EC50 > 1000 mg/l (green algae, 72 h. Toxicity to Microorganisms: EC50 > 1000 mg/l (activated sludge microorganisms, 3 h).

COMPONENT n-Butyl Acetate: Biodegradation: aerobic, 98%, exposure time 28 days. Biochemical oxygen demand (BOD) 1020 mg/g. Chemical Oxygen demand (COD) 2,320 mg/g. Bioaccumulation: ca. 4-14 BCF. Acute and Prolonged Toxicity to Fish LC50: 18 mg/l (fathead Minnow, 96 h). Acute Toxicity to Aquatic Invertabrate EC50: 72.8 mg/l (water flea, 48 h). Toxicity to aquatic plants EC50: 670 mg/l, end point: growth (Crytomonad, 48 h). Toxicity to Microorganisms EC50: 959 mg/l (Pseudomonas putida, 48 h).

COMPONENT Xylene: Acute Toxicity: Fish: Toxic 1 < LCECIC50 < 10mg/l, Aquatic Invertabrates: Toxic 1 < LC/EC/IC50 <10mg/l, Algae: Toxic 1 < LC/EC/IC50 <10 mg/l. Mobility – floats on water. If it enters the soil it will be highly mobile and may contaminate groundwater. Oxidises rapidly by photo-chemical reactions in air.

COMPONENT Ethyl Benzene: Biodegradation, Aerobic, 50%, Exposure time 28 days. .Biochemical Oxygen demand (BOD) 5 days, 2.8% and 35 days, 1780 mg/g. Bioaccumulation: Cyprinus carpio (Carp), 15 BCF. Acute and Prolonged Toxicity to Fish LC50: 12.1 mg/l (fathead minnow, 96 h). Acute Toxicity to Aquatic Invertebrates EC50: 1.8-2.9 mg/l (water flea, 48 h). Toxicity to Aquatic Plants EC50: 4.6 mg/l (green algae, 72 h). Toxicity to microorganisms EC50: 130 mg/l (activated sludge microorganisms, 48 hr).

SECTION 13: WASTE DISPOSAL

WASTE DISPOSAL METHOD:

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

SECTION 14: Transport Information

DOT: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTYL ACETATE), 3, PG III IMO/IMDG: UN1993, FLAMMABLE LIQUID N.O.S. (CONTAINS XYLENE, BUTYL ACETATE), 3, PG III

SECTION 15: REGULATORY INFORMATION

Product: OSHA HAZCOM STANDARD RATING: Hazardous. All components on TSCA

Massachusetts, New york, Pennsylvania Right to Know list includes the following components: Homopolymer of HDI CAS# 28182-81-2 @ 60-100%; n-Butyl Acetate CAS# 123-86-4 @ 10-20%; Xylene CAS# 1330-20-7 @ 7-13%; Ethyl Benzene CAS# 100-41-4 @1-5%. Massachusetts, New york, Pennsylvania Special hazardous Substance includes the following components: n-Butyl Acetate CAS# 123-86-4

@ 10-20%; Xylene CAS# 1330-20-7 @ 7-13%; Ethyl Benzene CAS# 100-41-4 @1-5%; hexamethylene diisocyanate (HDI) CAS# 822-06-0 @ <0.6%.

California Prop 65: This product contains chemicals known to the State of California to be carcinogenic: Ethyl Benzene CAS# 100-41-4 @ 1-5%.

US EPA CERCLA Hazardous Substances (40 CFR 302): n-butyl acetate reportable quantity 5000 lbs

US EPA CERCLA Hazardous Substances (40 CFR 302): Xylene reportable quantity 100 lbs.

US EPA CERCLA Hazardous Substances (40 CFR 302): Ethyl Benzene reportable quantity 1000 lbs.

US EPA Emergency Planning and Community Right to Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.5) components, Xylene and Ethyl Benzene.

SECTION 16: OTHER INFORMATION

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.

N/A = Not Available See Section 1 for date of preparation