

SAFETY DATA SHEET

PRODUCT CODE: 8400

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARM8400X
PRODUCT CODES: 8400

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

INFORMATION PHONE: 888-755-7361
EMERGENCY PHONE: Chemtrec 800-424-9300
FAX PHONE:
PREPARED BY: Armorpoxy

DATE REVISED: 5/15/15

Chemical Name or Class: Acrylic solution

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Skin corrosion/irritation category 2, Serious eye irritation category 2A, Chronic hazards to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Exclamation Mark



Hazard Statements:

Warning: Causes skin irritation

Warning: Causes serious eye irritation

Harmful to aquatic life with long lasting effects

Precautionary statements:

P102 Keep out of reach of children.

P103 Read label before use

P264 Wash hands thoroughly after handling.

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

Response:

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.

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 **FLAMMABILITY: 1** **REACTIVITY: 0** **PERSONAL PROTECTIVE EQUIPMENT: G**

POTENTIAL HEALTH EFFECTS

EYES:

DIRECT CONTACT CAN CAUSE IRRITATION.

SKIN:

DIRECT CONTACT CAN CAUSE IRRITATION.

INGESTION:

MAY CAUSE MOUTH, THROAT, ESOPHAGUS AND STOMACH IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

INHALATION:

MIST MAY IRRITATE NOSE, THROAT, AND LUNGS DEPENDING ON CONCENTRATION AND DURATION OF EXPOSURE.

HEALTH HAZARDS (ACUTE AND CHRONIC):

HEATED VAPORS MAY CAUSE HEADACHE, NAUSEA, OR SIMILAR RESPONSE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

CARCINOGENICITY

OSHA: NO **NTP: NO** **IARC: NO**

ADDITIONAL CARCINOGENICITY INFORMATION:

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Ethylene Glycol Monobutyl Ether -ACGIH Confirmed animal carcinogen with unknown relevance to humans.; Group A3.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| <u>INGREDIENT</u> | <u>CAS NO.</u> | <u>OSHA PEL</u> | <u>ACGIH TLV</u> | <u>OSHA STEL</u> | <u>WEIGHT %</u> |
|--|----------------|-----------------|------------------|------------------|-----------------|
| ACRYLIC POLYMER | NON-HAZARDOUS | N/E | N/E | N/E | 10-30 |
| RESIDUAL MONOMWERS | N/A | NONE | NONE | NONE | <0.1 |
| AQUA AMMONIA | 1336-21-6 | 35PPM | 25PPM | 25PPM | 0.1-1 |
| WATER | 7732-18-5 | NONE | NONE | NONE | 60-100 |
| *ETHYLENE GLYCOL MONOBUTYL ETHER | 111-76-2 | 25PPM | 25PPM | NONE | 4 |
| 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate | 169117-72-0 | none | none | none | <1.0 |
| Antifoam Emulsion | Non Hazardous | NONE | NONE | NONE | 0.1-1 |

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

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

SECTION 4: FIRST AID MEASURES

EYES:

IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION.

SKIN:

FLUSH SKIN IMMEDIATELY WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION IF NECESSARY.

INGESTION:

DILUTE BY GIVING MILK OR WATER AND SEEK MEDICAL ATTENTION.

INHALATION:

REMOVE TO FRESH AIR AREA AND RECEIVE MEDICAL ATTENTION IF ILL EFFECTS PERSIST.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,
(% by volume)

UPPER: not available

LOWER: not available

FLASH POINT: >212F

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA:

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

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR

UNUSUAL FIRE AND EXPLOSION HAZARDS:

MATERIAL CAN SPLATTER ABOVE 212 DEGREES F.

SECTION 6: RELEASE MEASURES

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

WEAR APPROPRIATE SAFETY EQUIPMENT WHEN HANDLING MATERIAL. DYKE MATERIAL AND TAKE UP WITH ABSORBANT TO SALVAGE CONTAINER.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

WEAR SUITABLE PROTECTIVE CLOTHING TO AVOID CONTACT WITH MATERIAL. WEAR NEOPRENE OR RUBBER GLOVES. WEAR SPLASH GOGGLES WITH SIDE SHIELDS. STORE AWAY FROM HIGH HEAT, CONTACT WITH FLAMES AND/OR SPARKS. KEEP MATERIAL IN SEALED CONTAINERS THAT ARE PROPERLY LABELED. DO NOT ALLOW MATERIAL TO FREEZE.

OTHER PRECAUTIONS:

USE GENERAL SAFETY PRECAUTIONS WHEN USING THIS MATERIAL. WASH HANDS BEFORE USING TOILET FACILITIES. REMOVE CONTAMINATED CLOTHING PROMPTLY AND WASH THEM BEFORE USE. AVOID SKIN CONTACT. AVOID BREATHING VAPORS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

USE A SUITABLE (NIOSH APPROVED ORGANIC VAPOR) RESPIRATOR UNLESS ADEQUATE VENTILATION IS PROVIDED. AVOID THE INHALATION OF ANY MISTS THAT MAY BE GENERATED IN THE APPLICATION PROCESS.

VENTILATION:

PROVIDE FOR ADEQUATE VENTILATION.

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PROTECTIVE GLOVES:

IMPERVIOUS GLOVES, NEOPRENE OR RUBBER.

EYE PROTECTION:

SPLASH PROOF GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

CLEAN BODY COVERING CLOTHING AS WELL AS APRON FOOTWEAR OR OTHER EQUIPMENT SHOULD BE USED AS DEEMED NECESSARY TO AVOID CONTACT WITH THE MATERIAL.

WORK HYGIENIC PRACTICES:

OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

SEE SECTION THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: MILKY WHITE LIQUID WITH NEGLIGIBLE ODOR

BOILING POINT OR RANGE: N/A

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H₂O = 1): 1.0

EVAPORATION RATE: N/A

SOLUBILITY IN WATER: DILUTABLE

Odor Threshold: 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):

PROTECT FROM FREEZING. PROTECT FROM ELEVATED TEMPERATURES.

INCOMPATIBILITY (MATERIAL TO AVOID):

NONE KNOWN

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

INCOMPLETE COMBUSTION CAN PRODUCE CARBON MONOXIDE

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

No data for the product itself.

Component data:

Components ACRYLIC POLYMER NON-HAZARDOUS, RESIDUAL MONOMWERS, AQUA AMMONIA CAS# 1336-21-6 and WATER

CAS# 7732-18-5: No data are available for this material. The information shown is based on profiles of compositionally similar materials.

Acute oral toxicity LD50 rat > 5,000 mg/kg. Acute dermal toxicity LD50 rabbit > 5,000 mg/kg. Skin irritation rabbit May cause transient irritation. Eye irritation rabbit No eye irritation

Component ETHYLENE GLYCOL MONOBUTYL ETHER CAS# 111-76-2: Ingestion LD50, Guinea pig 1,400 mg/kg, LD50, Rat, male 1,746

mg/kg. Skin Absorption LD50, Rat 2,270 mg/kg, LD50, Guinea pig > 2,000 mg/kg. Inhalation LC50, 7 h, Vapor, Rat 700 ppm. Skin

Sensitization: Did not cause allergic skin reactions when tested in humans. Did not cause allergic skin reactions when tested in guinea pigs.

Repeated Dose Toxicity: In animals, effects have been reported on the following organs: blood (hemolysis) and secondary effects on the

kidney and liver. Human red blood cells have been shown to be significantly less sensitive to hemolysis than those of rodents and rabbits.

Chronic Toxicity and Carcinogenicity: In long-term animal studies with ethylene glycol butyl ether, small but statistically significant increases

in tumors were observed in mice but not rats. The effects are not believed to be relevant to humans. If the material is handled in accordance

with proper industrial handling procedures, exposures should not pose a carcinogenic risk to man. Carcinogenicity Classifications: ACGIH

Confirmed animal carcinogen with unknown relevance to humans.; Group A3. Developmental Toxicity: Has been toxic to the fetus in

laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals. Reproductive Toxicity: In laboratory animal

studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. Genetic Toxicology: In

vitro genetic toxicity studies were predominantly negative. Animal genetic toxicity studies were negative.

Components 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0: LD50 Ingestion >2000 mg/kg – rat; Dermal LD 50 >2000 mg/kg – rabbit; severe eye irritant; mild skin irritant; Not mutagenic in Ames test.

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

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Component data:

Component ETHYLENE GLYCOL MONOBUTYL ETHER CAS# 111-76-2: ENVIRONMENTAL FATE: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

OECD Biodegradation Tests:

Biodegradation Exposure Time Method

95 % 28 d OECD 301E Test

100 % 28 d OECD 302B Test

Biological oxygen demand (BOD):

BOD 5 BOD 10 BOD 20 BOD 28

5.2 % 57 % 72.2 %

Chemical Oxygen Demand: 2.21 mg/g

Theoretical Oxygen Demand: 2.30 mg/mg

ECOTOXICITY: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested). Fish Acute & Prolonged Toxicity: LC50, bluegill (*Lepomis macrochirus*), 96 h: 820 - 1,490 mg/l. LC50, rainbow trout (*Oncorhynchus mykiss*), 96 h: 1,700 mg/l. Aquatic Invertebrate Acute Toxicity:

LC50, water flea *Daphnia magna*: 835 mg/l. EC50, water flea *Daphnia magna*, immobilization: 1,600 - 2,500 mg/l. LC50, grass shrimp (*Palaemonetes pugio*), static, 96 h: 5.4 mg/l. LC50, common shrimp *Crangon crangon*, static, 96 h: 550 - 950 mg/l. Aquatic Plant Toxicity:

EC50, green alga *Pseudokirchneriella subcapitata* (formerly known as *Selenastrum capricornutum*), biomass growth inhibition, 72 h: 911 mg/l. Toxicity to Micro-organisms: IC50; bacteria: > 1,000 mg/l.

Components 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0: This product is anticipated to be harmful to aquatic organisms based on data from similar product.

Component Antifoam Emulsion: Silicone content Biologically not degradable. Behaviour in environmental compartments: Mobility – Absorbed by floating particles, separation by sedimentation. Bioaccumulation is not expected to occur. According to past experience, toxicity to fish is improbable. BOD5 Value = 20 mg/g O₂/g. COD Value = 280 mg/g O₂/g

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: Not Regulated

IMO/IMDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

No data for the product itself.

Component data:

Components ACRYLIC POLYMER NON-HAZARDOUS, RESIDUAL MONOMERS, AQUA AMMONIA CAS# 1336-21-6 and WATER CAS# 7732-18-5: This product is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200). This product is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS). SARA TITLE III: Section 311/312 Categorizations (40CFR370): This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA. SARA TITLE III: Section 313 Information (40CFR372) This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations. CERCLA Information (40CFR302.4): Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. US. Toxic Substances Control Act (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Pennsylvania: Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 2, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act.

Component ETHYLENE GLYCOL MONOBUTYL ETHER CAS# 111-76-2: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313: This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.: Ethylene glycol monobutyl ether 111-76-2 > 99.0 %.. Pennsylvania (Worker and Community Right-To-Know Act): Pennsylvania Hazardous Substances List and/or Pennsylvania Environmental Substance List: The following product components are cited in the Pennsylvania Hazardous Substance List and/or the Pennsylvania Environmental Substance List, and are present at levels which require reporting.: Ethylene glycol monobutyl ether 111-76-2 > 99.0 %. California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute. US. Toxic Substances Control Act: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory. CEPA - Domestic Substances List (DSL): All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Components 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate CAS# 169117-72-0: WHMIS Hazard classification – Toxic material causing other toxic effects.. Product is on TSCA, EINECS, AICS, ENCS, ECL, SEPA, PICCS, DSL inventory lists.

Component Antifoam Emulsion: Is on TSCA list. This component may contain trace amounts of Proposition 65 Carcinogens such as Formaldehyde CAS# 50-00-0 and Acetaldehyde CAS# 75-07-0. This component contains Amorphous precipitated silica CAS# 112926-00-8

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which is on the Massachusetts, New Jersey and Pennsylvania Right to know hazardous substance list. Component is listed on the Canada DSL., IECSC, EINECS, TSCA, PICCS, ENCS, ECL, and AICS lists.

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