

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ARM815MX
PRODUCT CODES: 815

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

INFORMATION PHONE: 888-755-7361
EMERGENCY PHONE: Chemtrec 800-424-9300

PREPARED BY: Armorpoxy Regulatory Department

DATE REVISED: 1/2/15

Chemical Name or Class: Acrylic solution

SECTION 2: HAZARDS IDENTIFICATION**Hazard Overview**

GHS Classification: Acute toxicity oral category 4, Serious eye damage/eye irritation category 2B, Specific target organ toxicity – single exposure category 2, Specific target organ toxicity – repeated exposure category 2, Germ Cell Mutagenicity category 2, Chronic hazards to aquatic environment category 3

GHS Label Elements and Precautionary Statements:

Label Elements: Health hazard, Exclamation Mark

**Hazard Statements:**

Warning: Harmful if swallowed

Warning: Causes eye irritation

Warning: May cause damage to organs (central nervous system (CNS) and kidneys) through prolonged or repeated exposure

Warning: May cause damage to organs (central nervous system (CNS) and kidneys).

Warning: Suspected of causing genetic defects.

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.

P270 Do not eat, drink or smoke when using this product.

P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

Response:

P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P330 Rinse mouth

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.

P308 + P311 IF exposed or concerned: Call a poison center/doctor or get medical advice/attention.

P314 Get medical advice/attention if you feel unwell

Storage:

P405 Store locked up.

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, Warning: Suspected of causing cancer

HEALTH: 1 **FLAMMIBILITY: 1** **REACTIVITY: 0** **PERSONAL PROTECTIVE EQUIPMENT: G**

POTENTIAL HEALTH EFFECTS**EYES:**

MAY CAUSE IRRITATION BUT NO CORNEAL INJURY IF LIKELY.

SKIN:

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MAY CAUSE IRRITATION OR REDNESS AFTER EXPOSURE. REPEATED EXPOSURE MAY CAUSE DRYNESS & DEFATTING OF THE SKIN.

INGESTION:

CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

INHALATION:

VAPORS MAY CAUSE HEADACHE, NAUSEA, NOSE IRRITATION. CONTAINS ETHYLENE GLYCOL WHICH CAN CAUSE LIVER ABNORMALITIES, KIDNEY DAMAGE, AND CENTRAL NERVOUS SYSTEM EFFECTS UPON OVEREXPOSURE.

HEALTH HAZARDS (ACUTE AND CHRONIC):

HEATED VAPORS MAY CAUSE HEADACHE, NAUSEA OR SIMILAR RESPONSES. CHRONIC HEALTH HAZARDS ARE LIVER ABNORMALITIES, KIDNEY DAMAGE, AND CENTRAL NERVOUS SYSTEM EFFECTS.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

MAY AGGRAVATE PRE-EXISTING SKIN DISORDERS.

CARCINOGENICITY

OSHA: NO NTP: NO IARC: yes

Titanium Dioxide is listed by IARC as possibly carcinogenic to humans (group 2B).

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 CAS# TRADE SECRET (NON HAZARDOUS)	UNKNOWN	NONE	NONE	NONE	10-30
INDIVIDUAL RESIDUAL MONOMERS	not required	NONE	NONE	NONE	<0.1
WATER	7732-18-5	NONE	NONE	NONE	10-30
Acrylic polymer(s)	Not Hazardous	NONE	NONE	NONE	10-30
Residual monomers (component of Acrylic polymers)	Not Required	NONE	NONE	NONE	<0.1
Aqua ammonia (component of Acrylic polymers)	1336-21-6	5PPM	25PPM	25PPM	<0.1
*ETHYLENE GLYCOL	107-21-1	50PPM	50PPM	50PPM	<0.5
HYDROXYETHYL CELLULOSE	9004-62-0	10mg/m3	10mg/m3	NONE	0.1-1
PENTAPOTASSIUM TRIPHOSPHATE, KTPP	13845-36-8	NONE	NONE	NONE	0.1-1
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	500ppm	5mg/m3	NONE	0.1-1
Aluminum, hydroxybis(octadecanoato-.kappa.O)-	300-92-5	NONE	10mg/m3	NONE	0.1-1
Polycarboxylate, sodium salt	Not Hazardous	NONE	NONE	NONE	0.1-1
Residual monomers (component of Polycarboxylate, sodium salt)	Not Required	NONE	NONE	NONE	<0.1
LIMESTONE	1317-65-3	15mg/m3	5MG/M3	NONE	30-60
Titanium Dioxide	13463-67-7	10mg/m3	10mg/m3	5mg/m3	1-5
ALIPHATIC HYDROCARBONS	8052-41-3	100PPM	100PPM	NONE	1-5
MICROBICIDE Consisting of the six following ingredients:					<0.002
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	NONE	NONE	NONE	<0.001
2-Methyl-4-isothiazolin-3-one	2682-20-4	NONE	NONE	NONE	<0.0001
Magnesium Chloride	7786-30-3	NONE	NONE	NONE	<0.0001
Magnesium nitrate	10377-60-3	NONE	NONE	NONE	<0.0001
Copper nitrate	3251-23-8	NONE	NONE	NONE	<0.0001
WATER	7732-18-5	NONE	NONE	NONE	<0.002

SECTION 3 NOTES: *Indicates toxic chemical(s) subject to reporting requirements of section 313 of Title III and of 40 CFR 372. THE TWA (CEILING) FOR ETHYLENE GLYCOL FOR ACGIH = 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 15 MINUTES AND CONSULT A PHYSICIAN.

SKIN:

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

INGESTION:

DILUTE BY GIVING OR WATER. CONSULT A PHYSICIAN TO DETERMINE IF MEDICAL ASSISTANCE IS WARRANTED.

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: N/A

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(% by volume) LOWER: N/A

FLASH POINT: >212 F

METHOD USED:

SETA FLASH

EXTINGUISHING MEDIA:

OTHER

SPECIAL FIRE FIGHTING PROCEDURES:

MATERIAL WILL NOT BURN, BUT MAY SPLATTER ABOVE 212 DEGREES FARENHEIT, HOWEVER, THE POLYMER FILM WILL BURN, BUT WITHOUT GIVING OFF CHARRING BRANDS.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

NO UNUSUAL FIRE HAZARDS KNOWN.

SECTION 6: RELEASE MEASURES

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

WEAR RESPIRATOR AND PROTECTIVE CLOTHING. SHUT OFF THE SOURCE AT THE LEAK. REMOVE EXCESS WITH VACUUM TRUCK AND TAKE UP THE REMAINDER WITH AN ABSORBENT 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. KEEP MATERIAL FROM FREEZING.

OTHER PRECAUTIONS:

AVOID ALL SKIN CONTACT. AVOID BREATHING VAPORS GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. CONTAMINATED CLOTHING SHOULD BE CLEANED PRIOR TO REUSING.

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. GENERAL EXHAUST IS USUALLY SUFFICIENT IN LIEU OF NIOSH RESPIRATOR.

VENTILATION:

GENERAL EXHAUST IS USUALLY SUFFICIENT TO CONTROL VAPORS AND EXPOSURE HAZARDS.

PROTECTIVE GLOVES:

IMPERVIOUS GLOVES, NEOPRENE OR RUBBER.

EYE PROTECTION:

SPLASH PROOF GOGGLES OR SAFETY 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 OCCPATONAL EXPOSURE LIMIT VALUES.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: MEDIUM VISCOSITY PASTE – WHITE- AMMONIA ODOR

BOILING POINT OR RANGE: °F: 212

VAPOR DENSITY (AIR = 1): N/A

SPECIFIC GRAVITY (H2O = 1): 1.6

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

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CONDITIONS TO AVOID (STABILITY):

AVOID EXCESSIVE HEAT OR OPEN FLAMES

INCOMPATIBILITY (MATERIAL TO AVOID):

NONW KNOWN.

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:

ACRYLIC POLYMER CAS# TRADE SECRET (NON HAZARDOUS) CAS# UNKNOWN, INDIVIDUAL RESIDUAL MONOMERS- not required and WATER CAS# 7732-18-5: LD 50 OF MATERIAL, SPECIES &.....CLOSELY RELATED PRODUCT.: >5000 MG/KG (ORAL-RAT). ROUTE (DERMAL-RABBIT). CARCINOGENICITY OF MATERIAL.....FORMALDEHYDE IS CARCINOGENIC TO ANIMALS, AND IS A POSSIBLE HUMAN CARCINOGEN. IRRITANCY OF MATERIAL - EYE IRRITATION.: INCONSEQUENTIAL IRRITATION.. SKIN - IRRITATION.: PRACTICALLY NON-IRRITATING. (EYES, SKIN - RABBIT)

Component(s) Acrylic polymer(s) Not Hazardous, Residual monomers CAS# Not Required, 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(s) 5-Chloro-2-methyl-4-isothiazolin-3-one CAS# 26172-55-4, 2-Methyl-4-isothiazolin-3-one CAS# 2682-20-4, Magnesium Chloride CAS# 7786-30-3, Magnesium nitrate CAS# 10377-60-3, Copper nitrate CAS# 3251-23-8 and Water CAS# 7732-18-5: Acute oral toxicity LD50 rat female 3,310 mg/kg. Acute dermal toxicity LD50 rat male > 5,000 mg/kg. Skin irritation rabbit Corrosive. Eye irritation rabbit Corrosive. Sensitisation guinea pig Causes sensitization.. Carcinogenicity: Carcinogenicity: Non-carcinogenic in both a mouse dermal and rat oral carcinogenicity study. Reproductive toxicity: This product is not a reproductive hazard. Teratogenicity: Did not show teratogenic effects in animal experiments. Mutagenicity: Non-mutagenic. Activ ingredient Component:2-Methyl-4-isothiazolin-3-one Acute inhalation toxicity: LC50 rat 4 h 0.11 mg/l OECD Test Guideline 403

Component ETHYLENE GLYCOL CAS# 107-21-1: Toxicity to Animals: Acute oral toxicity (LD50): 4700 mg/kg [Rat]. Acute toxicity of the vapor (LC50): >200 mg/m³ 4 hours [Rat]. Chronic Effects on Humans: CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Mutagenic for mammalian somatic cells. Non-mutagenic for bacteria and/or yeast. May cause damage to the following organs: kidneys, liver, central nervous system (CNS). Other Toxic Effects on Humans: Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant, permeator), of inhalation. Special Remarks on Toxicity to Animals: Lowest Published Toxic Dose/Conc: TDL [Man] - Route: oral; Dose: 15gm/kg Lethal Dose/Conc 50% Kill LD50 [Rabbit] - Route: dermal; Dose: 9530 ul/kg Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. No human data has been reported at this time. May affect genetic material (mutagenic)

Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: May cause skin irritation. May cause more severe response if skin is abraded. A single prolonged exposure is not likely to result in material being absorbed through skin in harmful amounts. Massive contact with damaged skin may result in absorption of potentially harmful amounts Eyes: Vapors or mist may cause temporary eye irritation (mild temporary conjunctival inflammation) and lacrimation. Corneal injury is unlikely or insignificant.. Ingestion: It is rapidly absorbed from the gastrointestinal tract. Oral toxicity is expected to be moderate in humans due to Ethylene Glycol even though tests with animals show a lower degree of toxicity. Excessive exposure (swallowing large amounts) may cause gastrointestinal tract irritation with nausea, vomiting, abdominal discomfort, diarrhea. It can affect behavior/central nervous system within 0.5 to 12 hours after ingestion. A transient inebriation with excitement, stupor, headache, slurred speech, ataxia, somnolence, and euphoria, similar to ethanol intoxication, can occur within the first several hours. As sthe Ethylene Glycol is metabolized, metabolic acidosis and further central nervous system depression (convulsions, muscle weakness) develop. Serious intoxication may develop to coma associated with hypotonia, hyporeflexia, and less commonly seizures, and meningismus. 12 to 24 hours

Component HYDROXYETHYL CELLULOSE CAS# 9004-62-0: CHRONIC EXPOSURE - REPRODUCTIVE HAZARD

Species: Mouse Dose: 500 MG/KG Route of Application: Intraperitoneal Exposure Time: (3-7D PREG) Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Inhalation There were no deaths, abnormal behavioural reactions, adverse body weight changes or growth changes in any tissues or organs resulting from an acute dust inhalation study using low viscosity NATROSOL® 250 R with rats, mice and guinea pigs. Skin contact There was only slight primary irritation and no sensitization when human subjects were patch-tested.

Eye contact Application of this product to the eyes of rabbits produced only minimal irritation with complete recovery within 24 hours. Ingestion No specific symptoms.

Component PENTAPOTASSIUM TRIPHOSPHATE, KTPP CAS# 13845-36-8: Special Remarks on other Toxic Effects on Humans: Potential Health Effects: Skin: May cause skin irritation. However, it is considered non-irritating based on toxicity studies with a similar material.

Prolonged contact with the dry material may cause drying or chapping of the skin. Eyes: Dust may cause mechanical eye irritation. It is considered mildly irritating. Inhalation: Dust may cause respiratory tract irritation with coughing and sneezing. Ingestion: May cause digestive tract irritation. It is considered no more than slightly toxic if swallowed based on toxicity studies with a similar material. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Large doses may cause nausea, vomiting and diarrhea.

Component(s) Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS# 64742-65-0 and Aluminum, hydroxybis(octadecanoato-.kappa.O)- CAS# 300-92-5: Acute toxicity Oral: Type of value: LD50 Value: > 2,000 mg/kg.

Skin: Information on: Distillates (petroleum), solvent-dewaxed heavy paraffinic Species: rabbit Method: OECD Guideline 404. Eye:Information on: Distillates (petroleum), solvent-dewaxed heavy paraffinic Species: rabbit Result: non-irritant

Method: OECD Guideline 405 Literature data. Sensitization: Information on: Distillates (petroleum), solvent-dewaxed heavy paraffinic Patch-Test Species: guinea pig, Result: Non-sensitizing. Method: OECD Guideline 406

Polycarboxylate, sodium salt Not Hazardous and Residual monomers (component of Polycarboxylate, sodium salt) CAS# Not Required: Acute oral toxicity: LD50 rat > 5,000 mg/kg. Acute dermal toxicity: LD50 rabbit > 2,000 mg/kg. Eye irritation: rabbit No eye irritation

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Component Limestone: LD50 Oral (rat) = 6450 mg/kg. This product contains greater than 0.1% crystalline silica which is listed as a group I carcinogen by IARC, a known carcinogen by NTP, OSHA and as A2 suspected human carcinogen by ACGIH

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 ALIPHATIC HYDROCARBONS CAS# 8052-41-3: Eye - Standard Draize Test Rabbit, Dose: 500 mg/24H; Reaction: Moderate

SECTION 12: ECOLOGICAL INFORMATION

No data for the product itself.

Component data:

Component(s) 5-Chloro-2-methyl-4-isothiazolin-3-one CAS# 26172-55-4, 2-Methyl-4-isothiazolin-3-one CAS# 2682-20-4, Magnesium Chloride CAS# 7786-30-3, Magnesium nitrate CAS# 10377-60-3, Copper nitrate CAS# 3251-23-8 and Water CAS# 7732-18-5:

Biodegradability: OECD Test Guideline 301B or Equivalent 30 % Biodegradation (aquatic metabolism): CAS # 26172-55-4 t 1/2 anaerobic = 4.8 hr, CAS # 26172-55-4 t 1/2 aerobic = 17.3 hr, CAS # 2682-20-4 t 1/2 aerobic = 9.1 hr Not readily biodegraded. 10-day Window: Fail

Component ETHYLENE GLYCOL CAS# 107-21-1: Ecotoxicity: Ecotoxicity in water (LC50): 41000 mg/l 96 hours [Fish (Trout)]. 46300 mg/l 48 hours [water flea]. 34250 mg/l 96 hours [Fish (bluegill fish)]. 34250 mg/l 72 hours [Fish (Goldfish)].

BOD5 and COD: Not available. Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Component HYDROXYETHYL CELLULOSE CAS# 9004-62-0: Elimination information (persistence and degradability)

Biodegradability : Slowly biodegradable Ecotoxicity Acute fish toxicity The four day median tolerance limit (TL 50) of rainbow trout and bluegills under static conditions is greater than 100 parts hydroxyethylcellulose per million parts of water. In addition no adverse reactions were noted in the fish exposed to hydroxyethylcellulose. These results demonstrate that hydroxyethylcellulose has a low order of toxicity in fish.

Component PENTAPOTASSIUM TRIPHOSPHATE, KTPP CAS# 13845-36-8: Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

Component(s) Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS# 64742-65-0 and Aluminum, hydroxybis(octadecanoato-kappa.O)- CAS# 300-92-5: Fish Acute: LC50: > 100 mg/l. Microorganisms Toxicity to microorganisms: EC0: > 10 - 100 mg/l. Degradability / Persistence Biological / Abiological Degradation Evaluation: Not readily biodegradable (by OECD criteria).

Component Limestone: inert material

Component Titanium Dioxide: Pimephales promelas (fathead minnow) < 1000 mg/l @ 96h LC50; Pseudokirchneriella subcapitata (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 ACORDANCE 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:

ACRYLIC POLYMER CAS# TRADE SECRET (NON HAZARDOUS) CAS# UNKNOWN, INDIVIDUAL RESIDUAL MONOMERS- not required and WATER CAS# 7732-18-5: Components are on the TSCA List. WHMIS CLASSIFICATION - THIS IS NOT A CONTROLLED PRODUCT

Component(s) Acrylic polymer(s) Not Hazardous, Residual monomers CAS# Not Required, Aqua ammonia CAS# 1336-21-6 and Water CAS# 7732-18-5: OSHA: This component mixture is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200). WHMIS: This component mixture is not a controlled product under the Canadian Workplace Hazardous Materials Information System. US. Toxic Substances Control Act (TSCA): All components of this mixture are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Any material listed as "Not Hazardous" in the CAS REG NO. column of SECTION 3, Composition/Information On Ingredients, of this MSDS is a trade secret under the provisions of the Pennsylvania Worker and Community Right-to-Know Act. The following chemicals are listed because of the additional requirements of Pennsylvania law: Components: Ethyl acrylate CAS# 140-88-5. California (Proposition 65) This product contains trace levels of a component or components known to the state of California to cause cancer: Components: Ethyl acrylate CAS# 140-88-5

Component(s) 5-Chloro-2-methyl-4-isothiazolin-3-one CAS# 26172-55-4, 2-Methyl-4-isothiazolin-3-one CAS# 2682-20-4, Magnesium Chloride CAS# 7786-30-3, Magnesium nitrate CAS# 10377-60-3, Copper nitrate CAS# 3251-23-8 and Water CAS# 7732-18-5: OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). WHMIS: This product is subject to regulation under the Canadian Pest Control Products Act (P.C.P. Act). Therefore, this product is excluded from the supplier labeling and material safety data sheet requirements as specified in Section 12 of the Hazardous Products Act. SARA TITLE III:Section 311/312

Category 2 (40CFR370):Acute Health Hazard. SARA TITLE III:Section 313 Information (40CFR372): This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.): Magnesium nitrate (10377-60-3) as nitrate compound. CERCLA Information(40CFR302.4): This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated

Categorizations (40CFR370):Acute Health Hazard. SARA TITLE III:Section 313 Information (40CFR372): This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.): Magnesium nitrate (10377-60-3) as nitrate compound. CERCLA Information(40CFR302.4): This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated

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Component(s) 5-Chloro-2-methyl-4-isothiazolin-3-one CAS# 26172-55-4, 2-Methyl-4-isothiazolin-3-one CAS# 2682-20-4, Magnesium Chloride CAS# 7786-30-3, Magnesium nitrate CAS# 10377-60-3, Copper nitrate CAS# 3251-23-8 and Water CAS# 7732-18-5: OSHA: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). WHMIS: This product is subject to regulation under the Canadian Pest Control Products Act (P.C.P. Act). Therefore, this product is excluded from the supplier labeling and material safety data sheet requirements as specified in Section 12 of the Hazardous Products Act. SARA TITLE III:Section 311/312

Category 2 (40CFR370):Acute Health Hazard. SARA TITLE III:Section 313 Information (40CFR372): This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.): Magnesium nitrate (10377-60-3) as nitrate compound. CERCLA Information(40CFR302.4): This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated

Categorizations (40CFR370):Acute Health Hazard. SARA TITLE III:Section 313 Information (40CFR372): This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.): Magnesium nitrate (10377-60-3) as nitrate compound. CERCLA Information(40CFR302.4): This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated

Categorizations (40CFR370):Acute Health Hazard. SARA TITLE III:Section 313 Information (40CFR372): This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.): Magnesium nitrate (10377-60-3) as nitrate compound. CERCLA Information(40CFR302.4): This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated

Categorizations (40CFR370):Acute Health Hazard. SARA TITLE III:Section 313 Information (40CFR372): This product contains a chemical which is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: (Quantity present is found elsewhere on this MSDS.): Magnesium nitrate (10377-60-3) as nitrate compound. CERCLA Information(40CFR302.4): This material is regulated under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)and the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304. This material is or contains chemical(s) listed in 40 CFR Table 302.4 or nondesignated

SAFETY DATA SHEET

PRODUCT CODE: 815M

RCRA ICR substance(s). (Nondesignated ICR substances apply to materials that will not be reused.) The Reportable Quantity(s) (RQ) are listed below. Releases in excess of its reportable quantity must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. D002, 100lbs. US. Toxic Substances Control Act (TSCA): This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from U.S. Toxic Substances Control Act (TSCA) Inventory listing requirements

Component ETHYLENE GLYCOL CAS# 107-21-1: Federal and State Regulations: Illinois toxic substances disclosure to employee act: Ethylene glycol Illinois chemical safety act: Ethylene glycol New York release reporting list: Ethylene glycol Rhode Island RTK hazardous substances: Ethylene glycol Pennsylvania RTK: Ethylene glycol Minnesota: Ethylene glycol Massachusetts RTK: Ethylene glycol Massachusetts spill list: Ethylene glycol New Jersey: Ethylene glycol Louisiana spill reporting: Ethylene glycol TSCA 8(b) inventory: Ethylene glycol TSCA 4(a) proposed test rules: Ethylene glycol SARA 313 toxic chemical notification and release reporting: Ethylene glycol CERCLA: Hazardous substances. Ethylene glycol: 5000 lbs. (2268 kg) Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances and on the TSCA and Canada DSL lists.

Component HYDROXYETHYL CELLULOSE CAS# 9004-62-0: Component is on the TSCA and Canada DSL lists.

Component PENTAPOTASSIUM TRIPHOSPHATE, KTPP CAS# 13845-36-8: Federal and State Regulations: TSCA 8(b) inventory: Potassium Tripolyphosphate WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): This product is not classified according to the EU regulations.

Component(s) Distillates (petroleum), solvent-dewaxed heavy paraffinic CAS# 64742-65-0 and Aluminum, hydroxybis(octadecanoato-kappa.O)- CAS# 300-92-5: Federal Regulations Registration status: Chemical TSCA, US listed. OSHA hazard category: IARC 1, 2A or 2B carcinogen; NTP listed carcinogen; Chronic target organ effects reported; ACGIH TLV established EPCRA 311/312 (Hazard categories): Acute; Chronic. State regulations State RTK CAS Number Chemical name MA, NJ, PA 64742-65-0 Distillates (petroleum), solvent-dewaxed heavy paraffinic. Components are on the Canada DSL list.

Polycarboxylate, sodium salt Not Hazardous and Residual monomers (component of Polycarboxylate, sodium salt) CAS# Not Required: OSHA: This component mixture is considered non-hazardous under the OSHA Hazard Communication Standard (29CFR1910.1200). WHMIS: This component mixture is not a 'controlled product' under the Canadian Workplace Hazardous Materials Information System. 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. United States 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 component of this mixture listed as "Not Hazardous" in the CAS REG NO. column of SECTION 3, 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 Limestone: TSCA listed. Canada Exempt, naturally occurring Substance. EINECS, ECL, ENCS, CIES, PICCS listed. This product contains trace amounts of chemicals known to the state of California to cause cancer or reproductive effects.

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 ALIPHATIC HYDROCARBONS CAS# 8052-41-3: Component is on the TSCA, EC, Australia and Canada DSL 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