

## SECTION 1: Identification of the substance/mixture and of the Company/Undertaking

### 1.1 Product Identifier

Trade Name: AMT GFRC Acrylic Co-Polymer Resin

### 1.2 Relevant identified uses of the substance or mixture and uses advised against:

Relevant applications identified: APEO and ammonia free pure acrylic emulsion polymer specifically designed to modify cement compositions

Applications which are not advised : None known

### 1.3 Details of the supplier of the Safety Data Sheet

Company:

Company: AMT Composites (Pty) Ltd

AMT HEAD OFFICE

JOHANNESBURG

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## SECTION 2: Hazards Identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.2 Label Elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3 Supplemental Information

EUH210 Safety Data sheet available on request

EUH208 Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction

## SECTION 3: Composition/Information on ingredients

### 3.1 Chemical Nature: This product is used in coatings, textiles, binders and adhesives. This product is a mixture containing no hazardous ingredients according to GHS.

## SECTION 4: First Aid Measures

### 4.1 Description of first aid measures:

**GENERAL ADVICE:** If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**INHALATION:** Move to fresh air. Consult a physician if any effects occur.

**AFTER SKIN CONTACT:** Wash off with plenty of water.

**AFTER EYE CONTACT:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**AFTER INGESTION:** No emergency medical treatment necessary.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in section 11: Toxicology information.

### 4.2 Indication of any immediate medical attention and special treatment needed: Notes to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION 5: Firefighting measures

- 5.1 Extinguishing media:** Use extinguishing media appropriate for surrounding fire.  
**Unsuitable extinguishing media:** No data available.
- 5.2 Special hazards arising from the substance or mixture:**  
Hazardous combustion products: No data available
- 5.3 Unusual Fire and Explosion Hazards:** Material can splatter above 100°C/212°F. Dried product can burn.
- 5.4 Advice for Firefighters/Firefighting Procedures:** No data available.
- 5.5 Special protective equipment for firefighters:** Wear self-contained breathing apparatus and protective suit.

## SECTION 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Keep people away from and upwind of spill/leak. Material can create slippery conditions.
- 6.2 Environmental precautions**  
CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.
- 6.3 Methods and materials for containment and clean-up**  
Contain spills immediately with inert materials (e.g. sand). Transfer liquids and solid drinking material to separate suitable containers for recovery or disposal.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapours, mist or gas.
- 7.2 Conditions for safe storage:** Keep from freezing – product stability may be affected. STIR WELL BEFORE USE.
- 7.3 Storage stability:** Storage temperature 1 - 49°C
- 7.4 Other Data:** Monomer vapours can evolve when material is heated during processing operations. See Section 8 for types of ventilation required.

## SECTION 8: Exposure controls/personal protection

- 8.1 FURTHER INFORMATION:** Refer to the regulatory exposure limits for the workforce enforced in each country.
- 8.2 Exposure controls:**

**Engineering Controls:** Use local exhaust ventilation or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Individual Protection Measures:**

**Eye/Face protection:** Use safety glasses (with side shields) consistent with EN 166 or equivalent.

**Skin protection**

**Skin and Hand protection:** Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended.

**NOTICE:** The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Other protection:** Wear clean, body-covering clothing.

**Respiratory protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2 (meeting standard EN 14387).

## SECTION 9: Physical and chemical properties/appearance

Physical state	liquid
Colour-	white milky
Odour	acrylic-like
Odour Threshold	No data available
pH	9,5 - 10,5
Melting point/range	No data available
Freezing point	No data available
Boiling point (760 mmHg)	No data available
Flash point	Non-combustible
Evaporation Rate (Butyl Acetate = 1)	<1 Water
Flammability (solid, gas)	Not Applicable
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour Pressure	17 mmHg at 20 °C Water
Relative Vapour Density (air = 1)	<1 Water
Relative Density (water = 1)	1,0300 - 1,0800
Water solubility	partly miscible
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Dynamic Viscosity	<100 mPa.s
Kinematic Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Molecular weight	No data available
Percent volatility	52,00 - 54,00 % water

## SECTION 10: Stability and Reactivity

**10.1 Reactivity** – No data available.

**10.2 Chemical Stability:** Stable

- 10.3 Possibility of hazardous reactions:** Hazardous polymerisation does not occur
- 10.4 Conditions to avoid:** No data available.
- 10.5 Incompatible materials:** There are no known materials which are incompatible with this product.
- 10.6 Hazardous decomposition products:** Thermal decomposition may yield acrylic monomers.

## SECTION 11: Toxicological information

Toxicological information appears in this section when such data is available.

### Acute toxicity

- **Acute oral toxicity**  
Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.
- **Acute dermal toxicity**  
Prolonged skin contact is unlikely to result in absorption of harmful amounts.
- **Acute inhalation toxicity**  
With good ventilation, single exposure is not likely to be hazardous. In poorly ventilated areas, vapours or mists may accumulate and cause respiratory irritation.

### Skin corrosion/irritation

Prolonged contact may cause slight skin irritation with local redness.

### Serious eye damage/eye irritation

May cause slight temporary eye irritation.

Corneal injury is unlikely.

### Sensitization

#### For skin sensitization:

No relevant data found.

#### For respiratory sensitization:

No relevant data found.

### Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### Specific Target Organ Systemic Toxicity (Repeated Exposure)

No relevant data found.

### Carcinogenicity

No relevant data found.

### Teratogenicity

No relevant data found.

### Reproductive toxicity

No relevant data found.

### Mutagenicity

No relevant data found.

### Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

## SECTION 12: Ecological Information

*Eco toxicological information appears in this section when such data is available.*

**General Information:** There is no data available for this product.

#### 12.1 Toxicity

##### Acute toxicity to fish

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species).

LC50, *Oncorhynchus mykiss* (rainbow trout), static test, 96 Hour, > 100 mg/l

##### Acute toxicity to algae/aquatic plants

EC50, *Selenastrum capricornutum* (green algae), 72 Hour, Growth rate inhibition, > 1 000 mg/l

#### 12.2 Persistence and degradability

**Biodegradability:** The polymeric component is not expected to biodegrade.

#### 12.3 Bio-accumulative potential:

**Bioaccumulation:** No bio-concentration of the polymeric component is expected because of its high molecular weight. Latex dispersions will color water a milky white.

#### 12.4 Mobility in soil: No relevant data found.

**12.5 Results of PBT and vPvB assessment:** This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**Other adverse effects:** No relevant data found.

### SECTION 13: DISPOSAL CONSIDERATIONS

**13.1 Disposal methods:** Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush to a chemical sewer. For disposal, incinerate or landfill at a permitted facility in accordance with local, state, and federal regulations.

**13.2 Contaminated packaging:** Empty containers retain product residues. Follow label warnings even after container is emptied. Improper disposal or reuse of this container may be dangerous and illegal. Refer to applicable federal, state and local regulations.

### SECTION 14: Transport information

#### Classification for ROAD and Rail transport:

Not regulated for transport

#### Classification for SEA transport (IMO-IMDG):

Not regulated for transport

#### Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

#### Classification for AIR transport (IATA/ICAO):

Not regulated for transport

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

### SECTION 15: Regulatory Information

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

**Listed in Regulation:** Not applicable

Classification and labeling have been performed according to Regulation (EC) No 1272/2008

## SECTION 16: Other information

1. Revision
2. Identification Number: 10352403 / A300 / Issue Date: 06.06.2019 / Version: 2.1

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bio-accumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bio-accumulative

### *For further information, please contact: Technical Services Department*

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.

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