SAFETY DATA SHEET

MATERIALONE™ AQUEOUS RESINS

MSDS Date 31/ 03/ 2026

1. Identification of the substance / Preparation and Company

Product Name: Material One Aqueous Resin

Company Address:

AMT Composites (Head Office)
6 Director Road,
Aeroport,
Spartan Extension 2 (Kempton Park)
1619 R.S.A.

Telephone: 011 392 4232
Telefax: 011 974 4198

2. Composition / Information on Ingredients

NO.	CAS REG NO.	WEIGHT (%)
1. Acrylic Polymer	Not hazardous	43.3 – 45.6
2. Individual residual monomers	No required	<0.1
3. Aqua ammonia	1336 – 21 – 6	0.07 Max
4. Water	7732 – 18 –5	54.4 – 56.7

Note: Water contains small quantities of surfactant agent, plasticising agent and thickener.

EEC Risk Classification No.	Classification and Hazard Labelling
3 Aqua ammonia	C R: 34 - 37

See SECTION 15, Regulatory Information

This Product is a preparation

3. Hazards Identification

Primary Routes of Exposure: Inhalation, Skin contact and Eye contact

Inhalation: Inhalation of vapour or mist can cause the following - headache, nausea, irritation of the nose, throat and lungs

Skin Contact: Prolonged or repeated skin contact can cause the following - slight skin irritation

Eye Contact: Direct contact with material can cause the following - Slight irritation

4. First Aid Measures

Inhalation: Move subject to fresh air

Skin Contact: Wash affected skin areas thoroughly with soap and water Consult a physician if irritation persists

Eye Contact: Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists

Ingestion: If swallowed, give 2 glasses of water to drink. Consult a physician. Never give anything by mouth to an unconscious person

5. Fire-fighting Measures

Flash Point:	Non-combustible
Auto-ignition Temperatures:	Not applicable
Lower Explosive Limit:	Not applicable
Upper Explosive Limit:	Not applicable
Extinguishing Agents:	Use extinguishing media appropriate for surrounding fire

Unusual Hazards: Material can splatter above 100°C /212°F. Dried product can burn

Personal Protective Equipment:Wear self contained breathing apparatus pressure-demand MSHA/ NIOSH) apparatus or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Protection: Appropriate protective equipment must be worn When handling a spill of this material. See SECTION 8, Exposure Controls / Personal Protection for recommendations. If exposed to material during clean up operations, see Section 4, First Aid Measures, for actions to follow.

Procedure: Keep spectators away. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid dyking material to separate suitable containers for recovery or disposal

Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. Storage and Handling

Storage Conditions: Keep from freezing; material may coagulate. Minimum recommended storage temperature for this material is 1°C / 34°F.

Maximum recommended storage temperature for this material is 49°C /120°F.

8. Exposure Controls / Personal Protection

NO.	CAS REG NO.	WEIGHT (%)
1. Acrylic Polymer	Not hazardous	43.3 – 45.6
2. Individual residual monomers	No required	<0.1
3. Aqua ammonia	1336 – 21 – 6	0.07 Max
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Note: Water contains small quantities of surfactant agent, plasticising agent and thickener.

NO.	UNITS	ACGIH TWA STEL	MAK (Germany) WERT KAT
1		None	None
2		a	a
3	ppm	25 b 35 b	20 b c

a Not required
b As ammonia
c Maximum Limit : Category I

9. Physical and Chemical Properties

Vapour Density (Air = 1)	<1 Water
Vapour Pressure	2266.5 Pa @ 20°C / 68°F
Water	
Boiling point / Boiling Range	100°C / 212°F
Melting point / Melting Range	0°C / 32°F
Solubility in Water	Dilutable
Present Volatility	54.4 – 56.7 % Water
Evaporation Rate (Bac = 1)	<1 Water

10. Stability and Reactivity

Instability

This material is considered stable. However, avoid temperatures above 177°C /350°F, the onset of polymer decomposition. Thermal decomposition is dependant on time and temperature.

Hazardous Decomposition Products
Thermal decomposition may yield acrylic monomers.
Hazardous Polymerisation
Product will not under polymerisation.
Incompatibility
There are no known materials which are incompatible with this product

11. Toxicological Information

No toxicity data is available for this material. The information shown in SECTION 3, Hazards Identification, is based on the toxicity profiles for a number of acrylic emulsions that are compositionally similar to this product. Typical data values are:

Oral LD50 – rat:	>5000 mg / kg
Dermal LD50 – rabbit	>5000 mg / kg

Skin Irritation – rabbit :	Practically non-irritating
Eye Irritation – rabbit :	Inconsequential irritation

12. Ecological Information

No applicable Data

13. Disposal Considerations

Procedure

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant and flush into chemical sewer. Incinerate liquid and contaminated solids in accordance with local, state and Federal regulations.

Waste Key for the Product as Delivered (Germany)

573 03 Dispersion or Emulsions of plastic material.

14. Transport Information

ADR Class	Not Regulated for Transport
IMO Class	NR
IATA Class	NR

15. Regulatory Information

UNITED STATES

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Act (MSC) Chemical Substance Inventory.

EEC

This product satisfies all the requirements of the European Inventory of Existing Chemical Substances. (EINECS)

EINECS Information

No.	CAS REG NO.	EINECS
1 Acrylic Polymer	Not hazardous	
2 Individual residual monomers	Not required	
3 Aqua ammonia	1336 – 21 – 6	2156476
4 Water	7732 – 18 – 5	2317912

Indication of Danger

This product is not Hazardous according to EEC Directives 67/548/EEC and 88/379/EEC

16. Other Information

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienist
MAK	Maximum Workplace Concentration
TLV	Threshold Limit Value
PEL	Permissible Exposure Limit
TWA	Time Weighted Average
STEL	Short-Term Exposure Limit
Bac	Butyl acetate

Emergency Telephone numbers:

South Africa: +27 11 392 4232

NOTE 1 :

This product safety data sheet is issued to cover the following materials:

Material One Aqueous resins