

# SAFETY DATA SHEET

MATERIALONE™ AQUEOUS RESINS

**Material One**<sup>™</sup>  
A MASTERWORKS™ PRODUCT

MSDS Date 31/ 03/ 2026

Page number one of two

## 1. Identification of the substance / Preparation and Company

Product Name: Material One Aqueous Resin

Company Address:

AMT Composites (Head Office)  
6 Director Road,  
Aeroporto,  
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
4. Water	7732 – 18 – 5	54.4 – 56.7

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

# SAFETY DATA SHEET

MATERIALONE™ AQUEOUS RESINS

**Material One**  
A MASTERWORKS™ PRODUCT

MSDS Date 31/ 03/ 2026

Page number two of two

## 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

### DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and maybe beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS may not be acceptable.

### NOTE 1 :

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

**Material One Aqueous resins**

# SAFETY DATA SHEET

MATERIALONE™ POWDERS

**Material One**™  
A MASTERWORKS™ PRODUCT

MSDS Date 31/ 03/ 2026

Page number one of two

## 1. Identification of the substance / Preparation and Company

Product Name: Material One Powders

Company Address:

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

Telephone: 011 392 4232  
Telefax: 011 974 4198

## 2. Composition / Information on Ingredients

Generic Name - Calcium Sulfate Alpha  
Chemical Name - Calcium Sulfate Hemihydrate  
Chemical Composition - CaSO<sub>4</sub>·0.5H<sub>2</sub>O

Ingredients contributing to the hazards

May contain plasticising agents and range of fillers, i.e. aluminium glass spheres, silica, dolomite and granite particles.

## 3. Hazards identification

May cause skin irritation (mechanical effect).  
May cause irritation in case of eye contact.

## 4. First Aid Measures

Skin Contact: Wash the effected area carefully with soap and clean water.

Eye Contact: Wash eyes immediately with plenty of clean water and seek medical advise if irritation persists.

## 5. Fire-fighting Measures

Non-flammable product, does not favour other products combustion.

Extinguishing media - Not applicable

## 6. Accidental Release Measures

On Spillage: By brush and shovel as appropriate  
Personal Precautions: Dust mask and glasses  
Environmental Precautions: Follow paragraph 13 instructions

## 7. Storage and Handling

Handling Procedures

Prevention: Avoid repeated skin and eye contact with dry and the hydrated powder. In case of dust release during operation, collect the dust nearest to the emission point.

Precautions: Ensure adequate ventilation (general in the workshop and specific for the mixing facility).

Safe Handling Advise: Not applicable

## 7. Storage and Handling continued

Storage Conditions

Technical Measures: Good stock rotation

Storage conditions: Store clear of the ground and protect from all moisture condensation and heat.

Packaging materials: Polyethylene lined bags.

## 8. Exposure Controls / Personal Protection

Personal protective equipment: Not applicable

Exposure limits: Total inhalable dust = 10 mg/m<sup>3</sup>/8h  
Respirable dust = 4mg/m<sup>3</sup>/8h  
(Occupational Exposure Standards)

## 9. Physical and Chemical Properties

Physical State	Powder
Colour	White
Odour	None
pH (5% in pure water)	8.4
Relative Density	2.75
Melting point	1610°C
Water Solubility (25C-50g/l)	6.5
Flammability	N/A (not flammable)
Explosive properties	N/A (not explosive)

Note: Additions of plasticiser and fillers will effect colour, relative density and water solubility.

## 10. Stability and Reactivity

Stable product which does not cause any dangerous reactions with other substances.

Hazardous decomposition products:	None
Conditions to avoid:	None
Use measures:	None

Toxicological Information:	
Acute toxicity ingestion	Not toxic
Inhalation	Not toxic
Skin irritation	Irritant
Eye irritation	Irritant

## 12. Ecological Information

No effects when paragraph 13 measures are followed.

## 13. Disposal Considerations

Procedures:

Dispose of the product in a rubbish dump on conditions that it is not mixed to organic waste. Do not throw way the product in the sewerage system purely for mechanical reasons.

# SAFETY DATA SHEET

MATERIALONE™ POWDERS

**Material One**™  
A MASTER WORKS™ PRODUCT

MSDS Date 31/ 03/ 2026

Page number two of two

## 14. Transport Information

Not classified as hazardous for transport purposes.

## 15. Regulatory Information

EEC Regulatory information: None

Packaging disposal according to the local disposal regulations

## 16. Other Information

This safety data sheet doesn't exempt the user from knowing and abiding by the legislation ruling his activity.

Emergency Telephone numbers:

South Africa: +27 11 392 4232

---

### DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and maybe beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS may not be acceptable.

### NOTE 1 :

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

**Material One Powders**