

# ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE

3 Pipers Court, Berkshire Drive,  
Thatcham, Berks RG19 4ER  
Tel: 0845 123 2100 Fax: 0845 123 2101

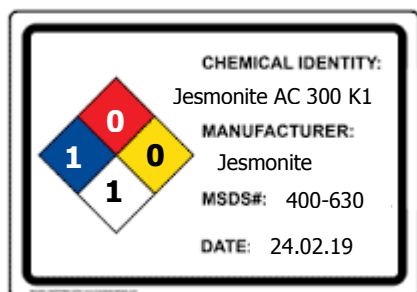


London Shop: 27 Warren Street  
London W1T 5NB  
Tel & Fax: 020 7380 0808

## Material Safety Data Sheet

### Jesmonite AC 300 Kit 1 consists of Base & Liquid.

### 400-630



<b>FIRE</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>HEALTH</b>	<b>1</b>
<b>PROTECTION</b>	<b>1</b>

#### MATERIAL SAFETY DATA SHEET: JESMONITE BASE

##### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name**

**Company Address:**

Jesmonite Limited, Challenge Court, Bishop's Castle, Shropshire, SY9 5DW

**Information in case of emergency:**

Tel:+44 (0) 1588 630302 Fax:+44 (0) 1588 630304 Web: www.jesmonite.co.uk Email: sales@jesmonite.co.uk

##### 2. HAZARDS IDENTIFICATION

These products are not classified and dangerous/hazardous under Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (Chip 3).

This material will harden and become very hot when mixed with Jesmonite AC100/200/300 liquids. Avoid skin contact and do not attempt to make a cast enclosing any part of the body. If these instructions are not followed, severe burns could result leading to surgical removal of the affected skin or even amputation of the limb.

##### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Composition :**

Principally calcium sulphate hemihydrate and natural constituents, which may include clay, limestone and trace amounts of quartz. Minor amounts (less than 1.0%) of other additives may be included.

**CaSO<sub>4</sub> x 0,5 H<sub>2</sub>O**

CAS number 26499-65-0 (Plaster of Paris)

Einecs number 231-900-3

**Dangerous Substances**

Name	Content	OEL	R - Phrase	Category of Danger	Cas-No
None	None	None	None	None	None

**Ref section 16 - Other information for full details of R-Phrases and danger categories.**

WEL Short Term (15 min)mg.3	Cas-No	Name	Content	WEL Long Term (8hr) mg.m3
None	26499-65-0	Plaster of Paris	>90%	10 Inhalable 4 Respirable

##### 4. FIRST AID MEASURES

Skin contact: Wash the affected area carefully with soap and clean water.

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

##### 5. FIRE FIGHTING MEASURES

Non-flammable product which 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. HANDLING AND STORAGE

Handling procedures: Avoid repeated skin and eye contact with dry and the hydrated powder. In case of dust release during operation, collect dust to nearest the emission point. Precautions: Ensure adequate ventilation, and/or dust extraction (general in the workshop and specific for the mixing facility). Safe handling advice: Not applicable. Storage conditions: Good stock rotation. Storage conditions: Store clear of the ground and protect from moisture, condensation and heat. Packaging materials: Polythene lined plastic pail, bulk paper sacks.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment

Dust mask and glasses.

### Exposure limits

Total inhalable dust =

10mg/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/1)** 6.5

**Flammability** N/A

**Explosive Properties** N/A

**NB:** Additions of plasticiser and fillers will affect 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

## 11. 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

### Procedure

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

## 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 does not exempt the user from knowing and abiding by the legislation ruling his activity.

### 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 may be 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.

# MATERIAL SAFETY DATA SHEET: AC300 LIQUIDS

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

### Product name

JESMONITE AC300 LIQUIDS

### Application of Product:

Casting of decorative mouldings.

### Company Address:

Jesmonite Limited. Challenge Court, Bishop's Castle, Shropshire, SY9 5DW

Tel:+44 (0) 1588 630302 Fax:+44 (0) 1588 630304 Web: www.jesmonite.co.uk Email: sales@jesmonite.co.uk

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance of mixture

This product is not classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

### 2.2 Label elements.

Labelling unnecessary in accordance with Regulation (CE) 1272/2008 - Annex 1 - 1.3.4.

Pictograms - - -

Warning - - -

Hazard indication - - -

Caution Recommendations - - -

This product is not subject to hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements

### 2.3 Other Hazards.

No information available.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions

set forth in Directives 67/548/EEC and/or EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

### 3.2 Mixtures

Information not relevant

## 4. FIRST AID MEASURES

**Inhalation:** Move subject to fresh air.

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

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

## 5. FIRE FIGHTING MEASURES

**Flash Point**

Non-combustible

**Auto-ignition Temperature**

N/A

**Lower Explosive Limit**

N/A

**Upper Explosive Limit**

N/A

**Extinguishing Agents**

Use extinguishing media appropriate for surrounding fire.

**Unusual Hazards**

Material can splatter above 100°C/212°F. Dry product can burn.

**Personal Protective Equipment**

## 5. FIRE FIGHTING MEASURES

**Flash Point**

Non-combustible

**Auto-ignition Temperature**

N/A

**Lower Explosive Limit**

N/A

**Upper Explosive Limit**

N/A

**Extinguishing Agents**

Use extinguishing media appropriate for surrounding fire.

**Unusual Hazards**

Material can splatter above 100°C/212°F. Dry 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.

### Procedures

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 run-off out of municipal sewers and open bodies of water.

## 7. HANDLING AND STORAGE

### Storage conditions

Keep from freezing; material may coagulate. The minimum recommended storage temperature for this material is 1°C/34°F. The maximum recommended storage temperature for this material is 49°C/120°F.

### Handling Procedures

Monomer vapours can be evolved when material is heated during processing operations. See section 8, Exposure Controls/Personal protection, for types of ventilation required.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**NB:** Water contains small quantities of surfactant, dispersion agent, coalescent agent and thickener.

ACGIH		MAK (Germany)	
No. Units	TWA STEL		WERT KAT
1	None		None
2	a		a
3	ppm	25 b 35 b	c
a		Not required	
b		As Ammonia	
c		Maximum limit : Category 1	

### Personal Protection

Eye protection Use chemical splash goggles (ANSI X87.1 or approved equivalent).

**Other protective equipment** - Facilities sorting or utilising this material should be equipped with an eye wash facility.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Milky
<b>Physical form</b>	Liquid
<b>Colour</b>	White
<b>Odour</b>	Acrylic odour
<b>pH</b>	7.8 – 8.9
<b>Viscosity</b>	< 500 mPa/s
<b>Specific gravity (water=1)</b>	1.0 – 1.2
<b>Vapour density (air = 1)</b>	< 1 water
<b>Vapour pressure</b>	2266.5 Pa @ 20°C/ 68°F water
<b>Boiling point/boiling range</b>	100°C/212°F
<b>Melting point/melting range</b>	0°C/32°F
<b>Solubility in water</b>	dilutable
<b>Percent volatility</b>	54.4 – 56.7% water
<b>Evaporation rate (BAc = 1)</b>	< 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 dependent on time and temperature.

**Hazardous decomposition products** Thermal decomposition may yield acrylic monomers.

**Hazardous polymerisation** Product will not undergo 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:

<b>Oral LD50 – rat:</b>	> 5000 mg/kg
<b>Dermal LD50 – rabbit:</b>	> 5000 mg/kg
<b>Skin irritation – rabbit:</b>	Practically non-irritating
<b>Eye irritation – rabbit:</b>	Inconsequential irritation

## 12. ECOLOGICAL INFORMATION

Inherent Biodegradability (OECD 302 B): this type of product is not biodegradable but readily bioeliminable.

Emulsion polymer biodegradation is generally considered limited and dependant on polymer size and origin of treatment sludge.

However, most of these polymers readily absorb onto water treatment sludge and therefore would be bioeliminable from effluents.

Active Sludge Respiratory Inhibition (OECD 209): >100 mg/1 (non-inhibiting).

No data are available for this material. The information shown is based on profiles of compositionally similar materials.

### Environmental Toxicity

Algae (Selenastrum capricornutum) 72 hour EC50: 777 ppm (non toxic)

Rainbow trout (Oncorhynchus mykiss) 96 hour LC50: >100 ppm (non toxic)

Daphnia magna, 48 hour EC50: >100 ppm (non toxic)

Microtox, 15 minute EC50: 16207 ppm (non toxic)

The above environmental toxicity data are for a compositionally similar material.

### 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 Dispersions 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 Hygienists
MAK	=	Maximum Workplace Concentrations
TLV	=	Threshold Limit Value
PEL	=	Permissible Exposure Limit
TWA	=	Time Weighted Average
STEL	=	Short-Term Exposure Limit
BAC	=	Butyl acetate

#### 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 may be 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.