

## MATERIAL SAFETY DATA SHEET: THIXOTROPE

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

**Product name**

JESMONITE THIXOTROPE

**Application of Product:**

Thickening agent for Jesmonite acrylic composites.

**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. COMPOSITION / INFORMATION ON INGREDIENTS

No.	CAS Reg No.	Weight (%)
1 Polyurethane resin	Not hazardous	19 – 21
2 Water	7732 – 18 – 5	79 – 81

### 3. HAZARDS IDENTIFICATION

**Primary route of exposure****Inhalation and skin 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.**Eye contact:** Flush eyes with a large amount of water for at least 15 minutes. Consult a physician if irritation persists.**Skin contact:** Wash affected area thoroughly with soap and water. 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 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. Polymer film 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 Personal Protection Measures section for recommendations. If exposed to material during clean up operations, see the First Aid Procedures section 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/24°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, Control Measures, for types of ventilation required.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No.	CAS Reg No.	Weight (%)
1 Polyurethane resin	Not hazardous	19 – 21
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No.	Units	OSHA		ACGIH
		TWA	STEL	TWA
1	None	None	None	None
2	None	None	None	None

#### Personal Protection

#### Respiratory protection

None required under normal operating conditions. When mist occurs during spraying operations, wear a MSHA/NIOSH – approved (or equivalent) disposable half mask dust/mist respirator.

#### Hand protection

The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection: Neoprene.

#### Eye protection

Use chemical splash goggles (ANSI Z87.1 or approved equivalent).

#### Ventilation

Use local exhaust with a minimum capture velocity of 100 ft/min. (30 m/min) at the point of vapour evolution. Refer to the current edition of Industrial Ventilation: A manual of recommended practice published by the American Conference of Governmental Industrial Hygienists for information on design, installation, use and maintenance of exhaust systems.

#### Other protective equipment

Facilities storing or utilising this material should be equipped with an eye wash facility

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Milky, translucent
Physical form	Liquid
Colour	White
Odour	Mild odour
pH	6.0 – 7.5
Viscosity	3800 CPS maximum
Specific gravity (water = 1)	1.0 – 1.2
Vapour density (air = 1)	<1 water
Vapour pressure	17mm Hg @ 20°C/ 68°F water
Boiling point/boiling range	100°C/212°F
Melting point/melting range	-2°C/28°F
Solubility in water	Dilutable
Percent volatility	79 – 81% water
Evaporation rate (BAc = 1)	< 1 water

### 10. STABILITY AND REACTIVITY

**Stability of substance** 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** There are no known hazardous decomposition products for this material.

**Hazardous polymerisation** Product will not undergo polymerisation.

**Incompatibility** There are no known materials which are incompatible with this product.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity data for compositionally similar material:

Oral LD50 – rat:	>5000mg/kg
Dermal LD50 – rabbit:	>5000mg/kg
Skin irritation – rabbit:	Slight irritant
Eye irritation – rabbit:	Inconsequential irritation

### 12. ECOLOGICAL INFORMATION

No applicable data.

### 13. DISPOSAL CONSIDERATIONS

#### Waste disposal – procedure

Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

### 14. TRANSPORT INFORMATION

Us DOT hazard class – Non regulated

### 15. REGULATORY INFORMATION

This product is considered non-hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product is not 'controlled product' under the Canadian Workplace Hazardous Materials Information System (WHMIS).

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### 16. OTHER INFORMATION

#### Abbreviations

<b>ACGIH</b>	=	American Conference of Governmental Industrial Hygienists
<b>OSHA</b>	=	Occupational Safety and Health Authority
<b>TLV</b>	=	Threshold Limit Value
<b>PEL</b>	=	Permissible Exposure Limit
<b>TWA</b>	=	Time Weighted Average
<b>STEL</b>	=	Short Term Exposure Limit
<b>BAC</b>	=	Butyl acetate

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