JESMONITE MADE FROM TE®

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
2 Water	7732 – 18 – 5	79 – 81

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. TOXILOGICAL 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).

No.	CAS Reg No.	Weight (%)
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2 Water	7732	**18 – 5**

16. OTHER INFORMATION

Abbreviations

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

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