

MATERIAL SAFETY DATA SHEET: AC830 LIQUIDS

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name

JESMONITE AC830 LIQUIDS

Application of Product:

Fibre reinforced decorative moulded elements.

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 Acrylic Polymer | Not hazardous | 17.5 – 20.1 |
| 2 Individual residual monomers | Not required | <0.1 |
| 3 Water | 7732 – 18 – 5 | 80.0 – 83.0 |

NB: Water contains small quantities of surfactant dispersion agent, plasticising agent and polyurethane thickener.

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 slight skin irritation.

Eye Contact: Direct contact with material can cause slight eye 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: Was affected skin areas 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. 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 | Not hazardous | 17.5 – 20.1 |

| | | |
|--------------------------------|---------------|-------------|
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NB: Water contains small quantities of surfactant, dispersion agent, plasticising agent and polyurethane thickener.

| No. Units | ACGIH | STEL | MAAK (Germany) | |
|-----------|-------|------|----------------|------|
| | TWA | | WERT | KAT |
| 1 | None | None | | |
| 2 | a | a | | |
| 3 | None | None | None | None |

a Not required

NB: Water contains small quantities of surfactant dispersion agent, plasticising agent and polyurethane thickener.

Personal protection

Respiratory protection: A respiratory protection programme meeting OSHA 1910.134 and ANSI Z88.1 requirements must be followed whenever workplace conditions warrant a respirator's use. None require if airborne concentrations are maintained below the exposure limit listed in 'Exposure Limit Information'. For airborne concentrations up to 10 times the TWA/TVL's listed in 'Exposure Limited Information', wear a MSHA/NIOSH approved (or equivalent) half mask, air purifying respirator. Air purifying respirators should be equipped with an ammonia/methylamine cartridge.

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. (£0 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 |
| Physical form | Liquid |
| Colour | White |
| Odour | Acrylic odour |
| pH | 4.5 – 5.5 |
| Viscosity | < 500 mPa/s |
| Specific gravity (water=1) | 1.0 – 1.2 |
| 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 |
| Percent volatility | 52 – 54% 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 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:

| | |
|----------------------------------|----------------------------|
| 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 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 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

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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.

