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Material Safety Data Sheet Jesmonite AC700/AC720/AC730 Composite Liquids

1. Identification of the Substance/Preparation and Company

Product Name: Jesmonite AC700, AC720 and AC730 Composite Liquids

Company Address:

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

Tel: +44 (0) 1588 630302

Fax: +44 (0) 1588 630304

2. Composition/Information on Ingredients

No.	CASS 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 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

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. 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.

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. Storage and Handling

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 heating during processing operations. See section 8, Exposure Controls/Personal Protection for types of ventilation required.

8. Exposure Controls/Personal Protection

No.	CASS 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.

No. Units	ACGIH		MAAK (Germany)	
	TWA	STEL	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: >5000mg/kg

Dermal LD50 – rabbit: >5000mg/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

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