# MATERIAL SAFETY DATA SHEET: ACRYLIC SEALER

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

**Product name**

JESMONITE ACRYLIC SEALER

**Application of Product:**

Protective sealer to prolong cosmetic durability.

**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 | 60 - 65 |
| 2 Individual residual monomers | Not required | <0.065 |
| 3 Aqua ammonia | 1336 – 21 – 6 | 0.25 max |
| 4 Water | 7732 – 18 – 5 | 59.2 – 60.5 |
| 5 Dipropyleneglycol n-butyl ether | 035884-42-5 | 4 – 5 |
| 6 Polymethyl, modified + filler + auxiliary | | |
| 7 Non ionic waxemulsion | | 2.0 – 3.5 |
| 8 Polyurethane resin | Not hazardous | 0.1 – 0.2 |
| 9 Synthetic, amorphous silica | 7631 – 86 – 9 | 1 – 2 |

**EEC Risk Classificatoin**

| **No.** | Classification and hazard labelling | |
|---|---|---|
| 3 Aqua ammonia | C | R:34 – 37 |

See section 15, Regulatory Information. This product is a preparation.

## 3. HAZARDS IDENTIFICATION

**Primary routes of exposure**

Inhalation, skin 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 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. 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. 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 | 30.1 – 31.4 |
| 2 Individual residual monomers | Not required | <0.065 |
| 3 Aqua ammonia | 1336 – 21 – 6 | 0.25 max |
| 4 Water | 7732 – 18 – 5 | 59.2 – 60.5 |
| 5 Dipropyleneglycol n-butyl ether | 035884-42-5 | 4 – 5 |
| 6 Polymethyl/dimethylsilane, modified + filler + auxiliary | | 0.1 – 0.3 |
| 7 Non ionic waxemulsion | | 2.0 – 3.5 |
| 8 Polyurethane resin | Not hazardous | 0.1 – 0.2 |
| 9 Synthetic, amorphous silica | 7631 – 86 – 9 | 1 – 2 |

| | | ACGIH | | MAK (Germany) | |
|---|---|---|---|---|---|
| **No.** | **Units** | **TWA** | **STEL** | **WERT** | **KAT** |
| **1** | | None | None | | |
| **2** | | a | a | | |
| **3** | ppm | 25b | 35b | 20 | c |
| **4** | | None | None | None | None |
| **5** | | | | | |
| **6** | | | | | |
| **7** | | | | | |
| **8** | | None | None | | |
| **9** | | | | | |

**a** Not required
**b** As ammonia
**c** Maximum limit : category I

**Personal protection**

**Respiratory protection:** A respiratory protection programme meeting OSHA 1910.134 and ANSI Z88.1 requirements must be followed whenever work place conditions warrant a respirator's use. None required 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 Limit 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 100ft/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 |
| **Physical form** | Liquid |
| **Colour** | White |
| **Odour** | Acrylic odour |
| **pH** | 7-9 |
| **Viscosity** | 300 CPS max |
| **Specific gravity (water = 1)** | 1.0 – 1.2 |
| **Boiling point/boiling range** | 100°C/212°F |
| **Melting point/melting range** | 0°C/32°F |
| **Solubility in water** | Dilutable |
| **Percent volatility** | 59.2 – 60.5% 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 dependant 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. TOXILOGICAL 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 step wise 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 |
| 5 Dipropyleneglycol n-butyl ether 035884-42-5 | 2527767 | |
| 6 Polymethyl/dimethylsilane, modified + Filler + auxiliary | | |
| 7 Non ionic waxemulsion | | |
| 8 Polyurethane resin | | Not hazardous |
| 9 Synthetic, amorphous silica | 7631 – 86 – 9 | 2315454 |

**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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