

# ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE

3 Pipers Court, Berkshire Drive,  
Thatcham, Berks RG19 4ER  
Tel: 0845 123 2100 Fax: 0845 123 2101

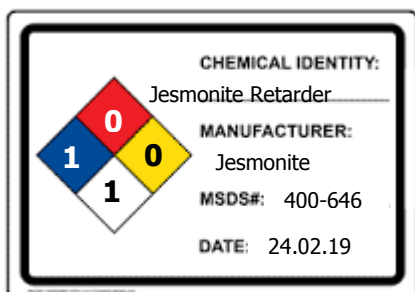


London Shop: 27 Warren Street  
London W1T 5NB  
Tel & Fax: 020 7380 0808

## Material Safety Data Sheet

### Jesmonite Retarder

### 400-646



<b>FIRE</b>	<b>0</b>
<b>REACTIVITY</b>	<b>0</b>
<b>HEALTH</b>	<b>1</b>
<b>PROTECTION</b>	<b>1</b>

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

##### Product name

JESMONITE RETARDER FOR AC100/200/300

##### Application of Product:

Extends pot life of Jesmonite materials.

##### Company Address:

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

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

**Composition:** Formulated product, an aqueous solution of Trisodium Citrate salts.

**Hazardous combustion products:** Carbon dioxide/Disodium oxide

##### Physical and chemical properties

##### Chemical Synonyms:

Cirrosodine Citnatin

##### Lethal dosage:

N/A

##### Specific gravity @ 20°C

Water

##### Vapour density:

Water

##### Vapour pressure:

Water

##### Freezing point °C:

Water

##### Boiling point °C:

100°C

##### Viscosity:

Water

##### pH:

7.5 – 8.0

#### 3. HAZARDS IDENTIFICATION

##### Hazard classification information

##### Risk phrases:

None

##### Safety phrases:

None

##### Primary risk:

None hazardous

##### S.I. Number:

None

##### ADR Class:

Not allocated

##### Tremcard No.:

None

##### IATA special provisions:

N/A

##### UN number:

None

##### CAS number:

68-04-2

##### Hazchem code:

Not allocated

##### Secondary risk

##### Conveyance class:

Not allocated

##### ADR HIN:

Not allocated

##### EINECS No.:

200-675-3

**IMDG code (page):** N/A  
**IMCO class:** Non hazardous  
**Packing group:** Not allocated  
**UK customs number:** CUS 23181  
**CHIP risk phrases:** None recommended – see regulatory information.  
**CHIP safety phrases:** None recommended – see regulatory information.  
**Composition/Information on ingredients:** Contains Trisodium Citrate.  
Specification will be given on request.

**Physical and environmental:** Not assigned by IMO reports and studies (4). Non hazardous to living resources – see other information.

**Adverse human health affects:** A substance of low toxicity widely used in food and medicine. See toxicological information.

#### 4. FIRST AID MEASURES

**Inhalation:** No harmful effect expected. Over exposure by inhalation is extremely unlikely to warrant medical attention. Remove to fresh air

**Skin contact:** No harmful effect expected. Significant exposure by skin contact is extremely unlikely to warrant medical attention. Brush off excess material and immediately wash affected area with plenty of water.

**Eye contact:** Irrigate eye thoroughly with water for at least 10 minutes, holding the eyelids apart if necessary. Obtain medical attention if necessary

**Ingestion:** No harmful effect expected. Over exposure by ingestion is extremely unlikely to warrant medical attention. Rinse mouth with water and give 200 – 300ml of warm water to drink.

**Medical assistance:** Not likely to be required but if necessary, treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

**Special protective equipment:** Non-combustible. May generate toxic fumes in a fire. Therefore fire fighters should wear breathing apparatus and appropriate protective clothing (8) – See exposure control.

**Suitable extinguishing media:** Select extinguishing medium appropriate to other materials involved in and/or to the circumstances of the fire. Keep containers cool with water spray.

**Special exposure hazards:** Non-combustible. Stable under normal conditions. Decomposes in heated air and on contact with acids to liberate fumes of carbon dioxide.

#### 6. ACCIDENTAL RELEASE MEASURES

**Methods for cleaning up:** No special precautions are required. Wash the contaminated area to drain with large quantities of water. Dispose of hazardous waste in accordance with waste disposal and water authority regulations. Use disposal considerations and environmental precautions.

**Personal precautions:** If necessary, wear a dust mask and other protective clothing – see exposure control.

**Environmental precautions:** If size of spillage warrants and has contaminated water courses, drains or vegetation – advise appropriate authorities. Evacuate personnel from the area.

#### 7. HANDLING AND STORAGE

**Storage:** Protect from frost

**Handling:** Exposure by inhalation or skin contact should be minimised by good industrial hygiene practice.

Wear appropriate protective clothing – see exposure control.

Safety showers and eye baths should be available in areas where accidental exposure is possible.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hand protection:** Wear PVC or rubber gloves.

**Eye protection:** Wear chemical goggles. Eye baths should be provided at places where accidental exposure may be possible.

**Skin protection:** Wear cotton overalls, headgear and rubber boots. Showers should be provided where accidental exposure may occur.

**Respiratory protection:** Occupational exposure limits not assigned by HSE (1) or ACGIH (2).

Recommended limit: OEL (8hr TWA) = 10mgm-3.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear aqueous solution

**Odour:** Odourless

#### 10. STABILITY AND REACTIVITY

**Conditions to avoid:** Stable under normal storage conditions.

**Hazardous decomposition products:** Carbon oxides and Disodium oxide.

#### 11. TOXICOLOGICAL INFORMATION

The product exhibits no acute toxicity by a single exposure. Large doses may cause gastrointestinal upsets.

#### 12. ECOLOGICAL INFORMATION

Non hazardous to living resources 96hr LC50> 1000mg/1(4) – see other information.

#### 13. DISPOSAL CONSIDERATIONS

**Disposal dangers:** Treat as for spillages. Wear appropriate protective clothing – see accidental release measures.

**Disposal methods:** Treat as for spillages – see accidental release measures.

Dispose of any hazardous waste in accordance with waste disposal or water authority regulations.

#### 14. TRANSPORT INFORMATION

**Not assigned in the following:**

**1912/743** The road traffic (carriage of dangerous substances in road tankers and tank containers) regulations.

**1993/1746** The chemicals (hazard information and packaging) regulations.

**1992/742** Road traffic (carriage of dangerous substances in packages etc.) regulations.

See regulatory information.

## 15. REGULATORY INFORMATION

**Classification:** The product is not a dangerous substance under the classification, packaging and labelling regulations (3).

**Phrases:** Under the CPL regulations (3) risk and safety phrases are not assigned to the product – see other information.

## 16. OTHER INFORMATION

**Training advice:** For all practical purposes, the product is considered to be non-toxic.

The product is a permitted food additive. Recommended uses and restrictions:

Regarded as a general purpose food additive.

**Data Sources** HSE guidance note EH40 Occupational Exposure Limits (Latest Edition). ACGIH (Threshold Limit Values and Biological Exposure Indices) 1985-86.

Chemicals (Hazard Information and Packaging for Supply) Regulations 1994 (SI No.3247) (CHIP 2). IMO Reports and Studies No.35 (The Evaluation of Hazards of Harmful Substances Carried by Ships) 1989 IMDG Code (International Maritime Dangerous Goods Codes) 1990 Control of Substances Hazardous to Health Regulations (SI 1988/1657).

Miscellaneous Food Additives Regulations 1980/Hazchem List No.6 (Emergency Action Codes and Supplementary Information) 1990. The United States Food Chemical Codex 3rd Edition 1981.

The MSDS complies with regulation 6 or CHIP 2 which implements Article 27 of the Dangerous Substances Directive (67/548/EEC) as amended by the Seventh Amendment (92/32/EEC), Article 10 of the Dangerous Preparations Directive (88/379/EEC) and the Safety Data Sheets Directive (91/155/EEC as amended by Directive 93/112/EC).

### Disclaimer of Liability

The information in this MSDS was obtained from sources we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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.