



## CONSERVATION BY DESIGN LIMITED

Timecare Works  
5 Singer Way  
Woburn Rd Ind. Estate  
Kempston  
Bedford  
MK42 7AW  
Great Britain

Tel: (01234) 853555  
Fax: (01234) 852334  
Email [info@conservation-by-design.co.uk](mailto:info@conservation-by-design.co.uk)  
Web: <http://www.conservation-by-design.co.uk>

# Technical Safety Data Sheet

## SEA GEL™

### Product Description

Sea Gel is a liquid fish gelatin formula (a 12% solution of fish gelatin) developed by Tatyana Petkhova and Dr Joe Regenstein of Cornell University, America. A strong non-toxic, natural adhesive that is reversible with water.

### Properties

Sea Gel Contains a high purity fish gelatin, plasticisers, preservatives and a buffer to maintain a neutral pH. Its low viscosity allows it to penetrate and after drying it forms a flexible, water-reversible film. For penetration of really fine cracks Sea Gel can also be diluted with alcohol and, where increased viscosity is required, it can be bulked up by adding a suitable wheat starch.

Sea Gel can be applied with heat or may be allowed to dry naturally. Changes in humidity will not cause the Sea Gel consolidation to separate.

### Use

Sea Gel can be used as an alternative to Isinglass as a consolidant for paint flakes, and as an adhesive for paper, textiles, objects and photographic materials.

A nearly colourless solution available in 100 and 500 ml containers



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# Material Safety Data Sheet

## SEA GEL™

### 1 - Chemical Product & Company Identification

<b>Product Name:</b>	Sea Gel™
<b>Chemical Name:</b>	aqueous fish gelatin solution
<b>DOT Shipping name:</b>	not required by DOT
<b>DOT Hazard Class:</b>	Non-hazardous

### 2 - Composition / Information on Ingredients

No.		WEIGHT(%)
1	Dry fish gelatin (protein)	13
2	Propylene Glycol	3
3	Potassium Sorbate	0.5
4.	Water	83.5

### 3 - Physical Properties

<b>Appearance:</b>	clear liquid
<b>Colour:</b>	Light yellow
<b>pH:</b>	7
<b>Viscosity:</b>	25-40 cs
<b>Solubility in water:</b>	Soluble
<b>Vapour pressure:</b>	as water

### 4 - Hazards Identification

<b>Flash point:</b>	N/A
<b>Flammability Class:</b>	3B
<b>Extinguishing media:</b>	Water, powder, foam or CO2

<b>Unusual fire &amp; explosion Hazards:</b>	None known
<b>Protective Equipment:</b>	Standard

#### 5 - First Aid Measures

<b>Eye Contact</b>	Flush eyes with water or a standard eye wash solution
<b>Skin Contact</b>	Wash affected skin areas thoroughly with soap and water.
<b>Ingestion</b>	Non-hazardous. If swallowed give water to drink. Never give anything by mouth to an unconscious person.

#### 6 - Accidental Release Measures

No special treatment is necessary; material can be wiped up and disposed of according to local regulations

#### 7 - Storage & Handling

Store in a cool place.