



## **SONAGEL D1**

### **ULTRASONIC COUPLANT POWDER**

<b>APPEARANCE:</b>	Bright pink fine powder
<b>DENSITY@ 20°C:</b>	0.70 Grams/CC
<b>FLASH POINT (PM):</b>	Non-flammable
<b>PH VALUE:</b>	9.0 (5% solution)
<b>SOLUBILITY:</b>	Water Soluble – forms a thick red gel
<b>SULPHUR:</b>	<50 P.P.M*
<b>HALOGENS:</b>	<50 P.P.M*
<b>CORROSION:</b>	Non-corrosive to most metals
<b>TEMPERATURE RANGE:</b>	5°C to 10°C
<b>REMOVABILITY:</b>	Water, alcohol or similar solvent

\*NB: This depends on the quality of the water used to produce the gel

Sonagel D1 is a stable clear gel specifically designed for ultrasonic inspection and it is non-toxic and safe for the environment. Sonagel D1 is used at a concentration of 50 grams per litre, but a thinner gel can be obtained by reducing the powder content to a minimum of 10 grams per litre.

This product is designed for use on all types of metallic surface and is especially suited to solving the problems of rough, pitted, uneven surfaces allowing smooth probe movement during testing. The thixotropic properties of this couplant give excellent wetting and acoustic transmission and do not allow the product to flow all over the test area. This makes it very economical to use as you only cover the working area and not the whole piece.

Sonagel D1 incorporates corrosion inhibitors and wetting agents and is free of VOC's and other hazardous materials. However, it does contain a special tracer to enable areas to be checked for coverage but the couplant is still easily removed with water or solvent wipes.

NB: This product is designed for use 'on site' for specific spot tests, where it is impractical to carry or deliver (ready to use) bulk couplant. (Sonagel O, Sonagel W)

Sonagel D1 is available in 1-kilo plastic tubs.

Water based W, oil based Sonagel O and high temperature Sonagel HT are also available as standard. Other couplants may also be supplied upon request



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Certificate  
No. Q5036





## SAFETY DATA SHEET

### 1. HEALTH &

**Product Name:** Sonagel D1

**Application:** Ultrasonic inspection of components and structures

### 2. COMPOSITION/INFORMATION OF INGREDIENTS

A mixture of gelling agent, corrosion inhibitors, wetting agents and pigment  
(Contains Disodium Tetraborate less than 25 %)

None of the component materials are listed in Chemicals (Hazard information and packaging for supply) (Amendment Regulations 1996. Approved Supply List 4<sup>th</sup> Edition)

### 3. HAZARDS IDENTIFICATION

R36 Irritating to the eyes  
May cause skin irritation  
May be harmful by inhalation or if swallowed

### 4. FIRST AID MEASURES

**Skin:** Remove contaminated clothing, wash off with soap and water. Flush skin with lukewarm water

**Eyes:** Immediately flush eyes with water for 15 minutes while holding eyes open. If irritation persists seek medical attention

**Ingestion:** Powder will gel, rinse mouth with water. Drink plenty of water. Seek medical attention if large quantities are ingested.

**Inhalation:** Immediately remove from exposure

### 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Water fog, Alcohol resistant foam, Sand, Carbon Dioxide or dry powder.

**Special Protective Equipment:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Wear PVC or rubber gloves and chemical goggles. If mist or vapours generated wear suitable respirator

**Environmental Precautions:** Contain powder in spillage area.



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**Methods for cleaning:** Sweep up or vacuum up as much of the dry powder as possible. Flush away remaining traces with copious amounts of water.

## **7. HANDLING AND STORAGE**

**Handling:** Open containers and use product in well-ventilated areas, avoid contact with skin and eyes

**Storage:** Store in sealed containers in covered storage areas

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Exposed control Limits and Source:**

Disodium Tetraborate Pentahydrate-1mg/cu.m. (8 hours time weighted average)  
Occupational exposure standard from table 2, EH40/98, Occupational exposure limit 1998 (HSE)

### **Take measures to prevent:**

**Respiratory:** Ensure good ventilation. Absorbent masks or respirators will be required if vapour build up occurs.

**Hands:** Plastic surgical-type gloves recommended

**Skin:** Normal work-wear overalls unless there is a risk of frequent splashing, when impervious aprons are recommended.

**Eyes:** Wear safety glasses or chemical goggles where there is any risk of product splashing in the eyes.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Bright red/pink free flowing powder

**Odour:** None detected

**PH:** Approx. 9.0.

**Boiling Point/Range:** N/A

**Melting Point/Range:** N/A

**Flash Point (°C) (PMCC):** N/A

**Autoflammability\*:** Combustible (Will ignite if exposed to flame temperatures)

**Explosive Properties\*:** Not determined

**Oxidising Properties\*:** Not determined

**Vapour Pressure\*:** N/A

**Relative Density\*:** 0.7

**Solubility:** Soluble in cold water. Gels at concentrations above 1%



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## **10. STABILITY AND REACTIVITY**

**Conditions to avoid:** Damp storage conditions (Product may agglomerate)

**Materials to avoid:** Strong acids and strong oxidising agents.

**Hazardous Decomposition Products:** Oxides of carbon

## **11. TOXICOLOGICAL INFORMATION**

**Eye Contact:** Eye irritant.

**Skin Contact:** Frequent or prolonged contact may irritate.

**Ingestion:** Suppliers data (Rat Oral LD50) for constituent raw materials exceeds 10g/kg. However, severe vomiting, diarrhoea, shock and coma have been reported

## **12. ECOLOGICAL INFORMATION**

**Behaviour:** Product will dissolve in water. However, with limited quantities of water, product will form a Gel, which may block drains or water courses.

**Environmental Fate:** Considered to be inherently biodegradable.

**Likely residues/Waste products:** Considered to be inherently biodegradable. Aqueous Gel of product, possibly contaminated with surface scale, paint etc.

## **13. DISPOSAL CONSIDERATIONS**

**Safe handling of any residues/waste product:** Large quantities are best disposed of by allowing the gel to dry out and incineration of the resultant residues at a suitable licensed waste disposal facility.

## **14. TRANSPORT INFORMATION**

Special carriage precautions in carriage (On-site or externally)

**Hazard classification:** Not regulated for transport

ADR/VLG:

RID/VSG:

RID ADR Hazard I.D No:

IMO:

CAS No: Mixture

ICAO/IATA:

**Note:** Actual label may not be as above if product was supplied some time previously or labelling is in transition period.

**This data sheet does not constitute a users assessment of workplace risk as required by HSW ACT, COSHH, Management of health and safety at work regulations, or other health and safety legislation.**



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## **15. OTHER INFORMATION**

### **Recommended uses and restrictions:**

Sonagel D1 is a powder concentrate for dispersion in water to form a gel for use in the Ultrasonic Inspection of components and structures.

### **Sources of key data used to compile safety data sheet:**

Raw Material Suppliers - Material Safety Data Sheets  
HSE EH40/98 Occupational Exposure Limits (HSE)

The information in this Safety Data sheet is based on the present state of our knowledge and on current EEC and National Laws, as users' working conditions are beyond our knowledge and control. This product is not to be used for other purposes other than those specified under SECTION 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product, it is not to be considered as a guarantee of the products properties.

### **The information in this Safety Data Sheet is pursuant of:**

- A)** The chemicals (Hazard Information and Packaging for Supply) (Amendment) Regulations 1997
- B)** Council Directive 92/32/EEC (03 No L154, 5-6-92.p1) amending the 7<sup>th</sup> time Council Directive 67/457/EEC (03 No 196. 16-8-67.p1.) (03/SE 1967,p234) in so far as these provisions relate to the classification, packaging and labelling of dangerous substances.
- C)** Council Directive 88/379/EEC (03 No LI187, 16-7-88.p14) as amended by Commission Directive 90/492 EEC (03 No L275 5-10-90 p35) on the classification, packaging and labelling of dangerous preparations.
- D)** Council Directive 78/631/EEC (03 No L204, 29-7-78 p13) on the classification, packaging and labelling of dangerous substances (pesticides); and
- E)** Commission Directive 91/115/EEC (03 No L76 22-3-91 p35) on system of specific information relating to dangerous preparations (Safety Data sheets) except in so far as those directives relate to the provision of child resistant fastenings for certain packages containing dangerous substances and preparations.

Please ensure that it is passed to the appropriate person(s) in your company, who are capable of acting on the information.



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