1 - Identification of the Substance/Preparation and of the Company.
1.1 Product Name: High Temperature Thermocouple Putty
1.2 Company Name: Mannings (Southport) Ltd, Units 1-5 Russell Road, Southport
(UK) PR9 7RJ. Tel: +44(0)1704 538202 Fax: +44(0)1704 545898

2 - Composition/Information on Ingredients.
The products are a basic preparation of silica sand and clay combined with various minor
mineral and chemical additives.

2.1 Main Ingredients:
Alkaline Sodium Silicate CAS No 1344-09-8 <10% R41, R38
Clay (Kaolin) CAS No 1332-58-7 EINECS No 310-127-6
Ground Silica Sand CAS No 14808-60-7 <25% R20, R48
Sand. CAS No 14808-60-7

3 - Hazard Identification.
Xi Irritant
Contains: Sodium Silicate an alkaline solution. Irritating to eyes.

Ground Silica Sand is a flour. R20 Harmful by inhalation and R48 Danger of serious
damage to health by prolonged exposure due to dust containing respirable silica SiO2.
There is no release of respirable silica in the form the product is supplied.

4 - First Aid Measures.

4.1 Eye Contact:
Wash eye immediately with plenty of clean water for at least 10 minutes and seek
medical advice without delay.

4.2 Skin Contact:
Wash the affected area with soap and water.
If irritation or other symptoms occur seek medical advice.

4.3 Inhalation:
If irritation occurs move to fresh air.

4.4 Ingestion:
Do not induce vomiting, wash out mouth, and drink copious quantities of water. Seek
medical advice.

5 - Fire Fighting Measures.
Product is not flammable and will not facilitate combustion with other materials.
6 - Accidental Release Measures.

Wear suitable protective equipment.
Collect in suitable containers for disposal.
Avoid contamination of drains and water courses.

7 - Handling and Storage
Pots should be stacked in a safe and stable manner
Avoid contact with eyes.
Avoid inhaling dust, if large quantities of material is machined, local exhaust ventilation is recommended.

8 - Exposure Controls/Personal Protection.
Maximum Exposure Limit (MEL) for Silica Flour $\text{SiO}_2 = 0.3 \text{mg/m}^3$ 8 hour time weighted average.
Occupation Exposure Standard for Kaolin respirable dust = $2 \text{mg/m}^3$ 8 hour waited average.

8.1 Eye Problem:
Dust proof goggles should be worn when there is a chance of product entering the eye.

8.2 Skin Protection:
Protective clothing must be worn that ensures the product does not come into prolonged contact with the skin.

8.3 Respiratory Protection:
Inhalation of dust should be avoided.
Respiratory protection i.e. dust mask should be worn if airborne dust is present in quantities likely to exceed the Maximum Exposure Limit or Occupational Exposure Standard.

8.4 Ingestion
Avoid ingestion by taking normal hygienic precautions.

9 - Physical and Chemical Properties.
Material is supplied in a moist condition and is grey in colour.

10 - Stability and Reactivity
Stable.
11 - Toxicological Information

11.1 Eye Contact
Cement is a severe eye irritant. Mild exposure can cause soreness. Gross exposure or untreated mild exposure can lead to chemical burning and ulceration of the eye.

11.2 Skin contact.
Irritating to skin.

11.3 Ingestion.
Avoid ingestion, large doses may result in irritation to the gastro intestine tract.

11.4 Inhalation.
Inhalation of the product in the form supplied is unlikely to have any effect but during wrecking operations respirable silica maybe released, prolonged exposure can give rise to fibrosis of the lungs commonly referred to as silicosis. The respirable percentage of SiO₂ available to inhale will be dependant on prevailing conditions. Ensure the Maximum Exposure Limit is not exceeded.

12 - Ecological Information.
The LC50 aquatic toxicity rating has not been determined.
The addition of cement to water will cause the pH to rise and may therefore be toxic to aquatic life in some circumstances.

13 - Disposal Considerations.
Empty containers or surplus cement can be disposed of at a site authorized to accept builders waste. Reference should be made to applicable local and national regulations.

14 - Transport Information.
Not classified as hazardous for transportation purposes.

15 - Regulatory Information.

Classification: Xi: Irritant
Contains Sodium Silicate.

Risk Phrases:
Irritating to eyes.
Safety Phrases:
Avoid contact with eyes and prolonged skin contact.
In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice.
Keep out of reach of children.

16 - Other Information.
Healthy & Safety At Work Etc Act 1974
Control of Substances Hazardous to Health regulations 1999.
Environmental Protection Special Waste Regulations 1996.
HSE Occupational Exposure Limits EH40/99
HSE Silica Dust and You ISBN 0717614484.

This product safety data sheet follows the requirements of 91/155/EEC as amended by directive 93/112/EEC.
The information is provided for making safety assessments and is not a sales specification or indication of suitability for a particular use.