



**NEWCLAY PRODUCTS**

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## **MATERIAL SAFETY DATA SHEET**

### **Hardener H1 (Solid)**

#### **1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE NAME OF THE SUPPLYING COMPANY**

Product Name: Hardener H1 (Solid).  
Supplier: Newclay Products Limited (contact details above).  
Emergency Contact: +44 (0)1626 835700 (office hours).  
MSDS Number: N013.

#### **2. HAZARDS IDENTIFICATION**

Classification: An alkaline material which may cause irritation to the skin and severe damage to the eyes.

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Composition: Sodium silicates  
Clay powder  
Pigments.  
EC Number: 15-687-4 (sodium silicate).  
CAS Number: 44-09-8 (sodium silicate).

#### **4 FIRST-AID MEASURES**

Inhalation: Irritation of breathing passages. Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete, seek medical attention.

Skin Contact: Irritation. Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin are damaged or if irritation persists seek medical attention.

Eye Contact: Severe irritation. Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.

Ingestion: Irritation of gastrointestinal tract. Wash out mouth with water. Do not induce vomiting. Give water to drink. If patient feels unwell seek medical attention.

**5. FIRE-FIGHTING MEASURES**

Extinguishing Media: Not combustible.

**6. ACCIDENTAL RELEASE MEASURES**

Safety Measures: Wear appropriate PPE – see Section 8.

Environmental: If material enters drains or watercourses, dilute as much as possible.

Spill Clean Up Methods: Spillages should not be washed into drains. Shovel up spilt material into drums and hold for waste disposal in accordance with instructions (Section 13).

**7. HANDLING AND STORAGE**

Usage Precautions: Use in a well-ventilated area. LEV may be required in dusty environments or if handling large quantities of material (>1Kg) in circumstances where excessive dust formation is likely.

Storage Precautions: Store in an air-tight container. Keep containers closed when not in use. Store between 5°C and 25°C.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION PROTECTIVE EQUIPMENT**

Exposure Limit: 2mg/m<sup>3</sup> 10 min TWA (sodium silicate).

Engineering Measures: LEV may be required in dusty environments or if handling large quantities of material (>1Kg) in circumstances where excessive dust formation is likely.

Respiratory Equipment: Suitable respiratory protective equipment should be worn if dusts are a problem.

Hand Protection: Impervious gloves should be worn if there is a possibility of contact with the skin.

Eye Protection: Goggles.

Hygiene Measures: Avoid eating and drinking whilst using the product and wash hands thoroughly with soap and water after use.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: White powder.

pH: >12

Solubility: Largely soluble in water.

**10. STABILITY AND REACTIVITY**

Stability: Stable in solid form.

Reactivity: Solutions will react with new surfaces of aluminium, zinc, and other reactive metals and their alloys, to evolve hydrogen.

Materials to Avoid: Acids.

#### 11. TOXICOLOGICAL INFORMATION

Inhalation: Irritating to throat, lungs and mucous membranes.

Ingestion: Ingestion may result in burning sensation in the mouth and throat, inability to swallow and irritation of gastrointestinal tract with nausea and vomiting.

Skin Contact: Irritating to skin.

Eye Contact: Severe eye irritation.

#### 12. ECOLOGICAL INFORMATION

Ecotoxicity: Readily depolymerises to molecular species indistinguishable from natural silica. pH above acceptable limits for discharge to aqueous environment.

Mobility: Largely soluble in water.

#### 13. DISPOSAL CONSIDERATIONS

General Information: Waste should be treated as hazardous waste.

Disposal Methods: Substance - via an authorised waste disposal contractor to an approved waste disposal site, observing all local and national regulations. Container - as substance; used containers must not be cut up or punctured until completely purged of product residues.

#### 14. TRANSPORT INFORMATION

Road Transport Notes: Not classified.

Rail Transport Notes: Not classified.

Sea Transport Notes: Not classified.

Air Transport Notes: Not classified.

#### 15. REGULATORY INFORMATION

Symbols: Irritant.

Risk Phrases: 41 - 37/38. Risk of serious damage to eyes. Irritating to respiratory system and skin.

Safety Phrases: 26 - 36/37/39. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eye/face protection.

**16. OTHER INFORMATION**

Material Use: The material is intended for those educational, arts and crafts, hobby, floral, recreational, artistic and industrial purposes for which it is considered suitable. Additional assessment of its properties and potential hazards may be necessary if the material is to be used for other purposes.

Issue Date: 08 March 2014.

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MSDS Number: N013.

MSDS Status: Approved.