



# SAFETY DATA SHEET

## HIGH TEMPERATURE ROPE ADHESIVE

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

**PRODUCT NAME:** High temperature rope adhesive  
**APPLICATIONS:** Super seal preparation  
**PRODUCT CODE:** PH004  
**SUPPLIER:** Arctic Products Ltd, Nina Works, Gelderd Road, Leeds, LS12 6NA  
Tel: 0844 871 8461 Fax: 0844 871 8462

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL FORMULATION:** Na<sub>2</sub>O (SiO<sub>2</sub>)<sub>x</sub> where x > 3.2  
**CAS No:** 1344-09-8  
**EINECS No:** 215-687-4  
**TARRIFF No:** 283919000  
**U.N. No:** N/R  
**HAZARDS:** Irritant

### 3. HAZARDS IDENTIFICATION

**INHALATION:** Irritation of the nose, throat and lungs.  
**SKIN:** Irritating.  
**EYES:** Irritating.  
**INGESTION:** Harmful.

### 4. FIRST AID MEASURES

**EYES:** Eye wash facilities must be kept close to hand. Wash immediately with copious amounts of water. Seek medical attention immediately.  
**SKIN:** Wash skin thoroughly with water and remove contaminated clothing. Obtain medical attention if symptoms develop.  
**INHALATION:** Remove to fresh air. Obtain medical attention immediately.  
**INGESTION:** Do not induce vomiting. Remove material from mouth. Drink 1 or 2 glasses of water (or milk) and obtain medical attention.

### 5. FIRE FIGHTING MEASURES

Not applicable. Aqueous solution. Will not support combustion.

### 6. ACCIDENTAL RELEASE MEASURES

**SPILLAGES:** If possible contain and absorb in earth or sand and shovel into suitable containers. Spillages, unless dealt with promptly, may set to glass and become slippery.  
**ENVIRONMENTAL PRECAUTIONS:** If containment is not possible and material enters drains, dilute as much as possible with water and immediately notify the authorities.  
**PERSONAL PRECAUTIONS:** Wear goggles to protect your eyes.

## 7. HANDLING AND STORAGE

**STORAGE PRECAUTIONS:** Do not store at temperatures above 50°C for prolonged periods. Protect from freezing. Normal ventilation is adequate.

**HANDLING PRECAUTIONS:** Wear suitable goggles. Gloves and protective clothing when handling.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE LIMITS:** Not listed. Sodium Hydroxide has an exposure limit of 2 mg/m<sup>3</sup> (15 min TWA). When using sodium Silicate it is recommended that exposure to alkalinity, calculated as NaOH, should be kept below this limited.

**ENGINEERING MEASURES:** Local exhaust ventilation if solution is sprayed or forms an airborne aerosol, otherwise no special controls are necessary.

**RESPIRATORY PROTECTION:** None under normal use.

**HAND PROTECTION:** Wear impermeable plastic or rubber gloves.

**EYE PROTECTION:** Wear goggles. Eye protection is essential when handling alkaline materials.

**SKIN PROTECTION:** Wear suitable overalls, wash off splashes immediately.

**GENERAL:** No eating, drinking or smoking in the workplace.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Colourless liquid

**ODOUR:** Odourless.

**VISCOSITY:** 20-3000Cp at 20°C

**FREEZING POINT:** 0°C.

**BOILING POINT:** 100°C.

**MELTING POINT:** Not applicable.

**FLASH POINT:** Not applicable.

**AUTOFLAMABILITY:** Not applicable.

**VAPOUR PRESSURE:** Not applicable.

**RELATIVE DENSITY:** 1.2-1.6

**SOLUBILITY:** Soluble.

**VAPOUR DENSITY:** Not applicable.

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**CONDITIONS TO AVOID:** May react with aluminium, zinc, tin and their alloys evolving hydrogen gas. Dilute solutions (<10% solids) have zero to minimal action with these metals. If any welding is carried out on vessels containing silicate solutions, take care to prevent electrolysis of the solution. Circuits must not be completed through pipes containing valves or flange bolted or threaded joints. May react violently with acids. Food or dairy residues may contain reducing sugars which under certain conditions may react with alkaline cleaning materials evolving carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

<b>GENERAL:</b>	The primary hazard of sodium silicate by all routes of entry into the body is its alkalinity.
<b>INGESTION:</b>	The toxicity of sodium silicate is dependant on the silica to alkali weight ratio and on the PH LD50 oral rat values reported in the literature are in the range of 1600-3200 mg/kg.
<b>INHALATION:</b>	Unless the solution is sprayed or otherwise becomes as an aerosol, inhalation of silicate solution is unlikely to occur. Irritation of the nose, throat and lungs, due to alkalinity is the likely effect.
<b>SKIN CONTACT:</b>	Prolonged contact may cause irritation.
<b>EYE CONTACT:</b>	May cause irritation to the eyes.

## 12. ECOLOGICAL INFORMATION

Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. However, the ph of most silicate solutions is above the acceptable limits for direct discharge to sewers and water courses.

## 13. DISPOSAL CONSIDERATIONS

For disposal by landfill sodium silicate is classed as a special waste under the UK Control of Pollution (Special Waste) Regulations. For dilute solutions or in mixtures, Waste Management Paper No 23 published by the Department of the Environment, should be consulted. Consult local regulations before disposal.

## 14. TRANSPORT INFORMATION

Pack in steel drums, tanks or tankers. Do not use aluminium. Not classified as dangerous goods under the United Nations Transport Recommendations.

## 15. REGULATORY INFORMATION

Not classified under the rules of the EEC  
"Dangerous Substances Directive"  
67/548/EEC as amended by 92/32/EEC

## 16. OTHER INFORMATION

### DISCLAIMER

The information on this sheet is not a specification. It does not guarantee specific properties. The information is intended to provide general guidance to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product nor where instructions and recommendations are not followed.