

## SAFETY DATA SHEET

Date: July 2017

Reference: DF/PJO/2

### SECTION 1: Identification of the substance / mixture and of the company undertaking

**1.1 Product Identifier :** DYE FIXER

Substance Name Sodium Silicate solution  
EC No.: 215-687-4  
Reach Registration No.: 01-2119448725-xxxx  
CAS No.: 1344-09-8

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: To fix designs made with Batik dyes onto natural fibres

Uses advised against: All other uses

Reasons why uses advised against: The Dye fixer has been developed and tested specifically for this application and is not recommended for any other use.

### 1.3 Details of the supplier of the safety data sheet

Supplier: Creative Art Products Limited  
Scola House, 10 Dalton Way  
Middlewich, Cheshire  
CW10 0HU  
U.K

Telephone Number: 01606 836076

Fax Number: 01606 841727

Email address: [orders@scolaquip.co.uk](mailto:orders@scolaquip.co.uk)

### 1.4 Emergency telephone number

Number: 01606 836076

Opening Hours (GMT): 8am-5pm Monday-Thursday, Friday 8am-12.45pm

Language: English

## SECTION 2: Hazards Identification

### 2.1 EEC Directive 67/548/EEC & Directive 1999/45/EC

IRRITANT

#### Hazard Summary

Alkaline  
Risk of serious damage to eyes  
Irritating to skin

### 2.2 Label Elements According to Directive 67/548/EEC & Directive 1999/45/EC

Hazard Symbol



Xi irritant

Risk phrases

R41: Risk of serious damage to eyes  
R38: Irritating to skin

Safety Phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S37/39: Wear suitable protective clothing, gloves and eye/face protection

### 2.3 Other Hazards

Not applicable

## SECTION 3: Composition / Information on ingredients

Classification

Ingredient	CAS Number	REACH Registration Number	Classification According to directive 67/548/EEC	Classification According to Regulation 1272/2008	Content (W/W)
Silicic acid Sodium salt	1344-09-8	01-2119448725-xxxx	Xi R41, R37/38	H315: Skin irrit.2: H318: Eye Dam. 1: H335: STOT SE3:	35-55%
Water	7732-18-5	231-791-2			45-65%

## **Section 4: First aid measures**

### **4.1 Description of first aid measures**

Following Inhalation	Remove patient from exposure, keep warm and at rest. Obtain medical attention.
Following skin contact	Wash affected skin with plenty of water. If symptoms develop, Obtain medical attention.
Following eye contact	Irrigate with eyewash solution or clean water, holding the eyelids apart for at least 15 minutes. Obtain immediate medical attention.
Following ingestion	Do not induce vomiting. Wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain medical attention.

### **4.2 Most important symptoms and effects, both acute and delayed**

Alkaline

Risk of serious damage to eyes, Irritating to skin, the toxicity of Sodium Silicate is dependent on the silica to alkali ratio and on the pH.

### **4.3 Indication of any immediate medical attention and special treatment needed.**

Obtain immediate medical attention.

## **SECTION 5 Fire-fighting measures**

### **5.1 Extinguishing Media:**

Suitable extinguishing media: Compatible with all standard fire-fighting techniques

Unsuitable extinguishing media: None Known

### **5.2 Specific hazards arising from the substance or mixture:**

Not applicable, aqueous solution. Non-Combustible

### **5.3 Advice for Fire-fighters**

None

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing. Wear eye/face protection.

### **6.2 Environmental precautions:**

Do not allow to enter drains, sewers or water courses, advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

### **6.3 Methods and materials for containment and cleaning up:**

Caution-spillages may be slippery. Contain spillage with sand, earth or any suitable absorbent material. Transfer to a container for disposal or recovery.

### **6.4 Reference to other sections**

See section 8

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with eyes, skin and clothing. Avoid generation of mist. Provide adequate ventilation. Emergency shower and eyewash should be readily available. See also section 8.

### **7.2 Conditions for safe storage including any incompatibilities**

Keep at room temperature in its original container. Do not allow to freeze.

## **SECTION 8: Exposure controls / personal protection**

### **8.1 Control Parameters**

No occupational exposure limits assigned.  
An exposure limit of 1mg/m<sup>3</sup> (15min TWA) is recommended by analogy with Sodium Hydroxide.

### **8.2 Exposure controls**

Wear protective equipment to comply with good occupational hygiene practise.  
Do not eat, drink or smoke in the workplace.

### **Appropriate Engineering controls**

Engineering methods to prevent exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation and control of process conditions.

### **Respiratory protection**

Respiratory protection is not normally required. Advice on respiratory protection is given in the HSE (Health & Safety) publication HS(G)53.

### **Eye Protection**

Chemical goggles

### **Skin and hand protection**

Wear suitable protective clothing and gloves made from plastic or rubber. Wear suitable overalls.

### **8.2.3 Environmental exposure controls**

The primary hazard of Sodium Silicate is the alkalinity. Avoid release to the environment.

## **SECTION 9: Physical and Chemical Properties**

Appearance:	Liquid, almost colourless
Odour:	Odourless
Ph:	Strongly alkaline
Melting / Freezing point:	Not applicable
Boiling point:	100 degrees C
Flash point:	Not applicable

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

See section 10.3

### **10.2 Chemical stability**

Stable

### **10.3 Possibility of hazardous reactions**

Aqueous solutions will react with aluminium, Zinc, Tin, and their alloys evolving hydrogen gas which can form an explosive mixture with air: Can react violently if in contact with acids: Can react with sugar residue to form carbon monoxide.

#### **10.4 Conditions to Avoid**

See section 10.3

#### **10.5 Incompatible Materials**

See section 10.3

#### **10.6 Hazardous decomposition product**

None Known

### **SECTION 11: Toxicological Information**

#### **11.1 Information on toxicological effects**

##### **Acute Oral Toxicity**

All symptoms of acute toxicity are due to high alkalinity. Material will cause irritation.  
Oral LD50 (rat) 3400mg/Kg of body weight

##### **Acute inhalation toxicity**

Mist is an irritation to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity  
Inhalation LC50 (rat) >2.06 g/m<sup>3</sup>

##### **Acute Dermal toxicity**

Skin contact-Material will cause irritation. Dermal LD50 (rat) >5000mg/Kg body weight  
Eye contact – Material will cause severe irritation, risk of serious damage to eyes.

##### **Skin Corrosion/irritation**

Irritation to skin

##### **Sensitisation**

Not sensitising

##### **Mutagenicity**

No evidence of genotoxicity. In vitro/in vivo negative

##### **Carcinogenicity**

No structural alerts

##### **Reproductive Toxicity**

No evidence of reproductive toxicity or developmental toxicity.

##### **STOT-single exposure**

Not classified

##### **STOT-repeated exposure**

Not classified. NOAEL oral (rat) >159mg/Kg body weight

##### **Aspiration hazard**

Not classified

## **SECTION 12: Ecological Information**

Not considered to be a significant hazard as supplied. Further information is available if required.

The alkalinity of this material will have a local effect on eco systems sensitive to changes in Ph.

## **SECTION 13: Disposal Consideration**

Waste product should not be discharged into drains or waterways without treatment.

Disposal of product and packaging should always comply with local and national regulations.

EU Waste code                      No waste code number available

## **SECTION 14: Transport Information**

### **U.N. Number**

Not classified according to the United Nations "Recommendations on the Transport of Dangerous goods".

### **Unsuitable Packaging**

Aluminium

## **SECTION 15: Regulatory Information**

### **15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture.**

TSCA Inventory Status:                      Reported / Included

AICS Inventory Status:                      Reported / Included

DSL/NDSL Inventory Status:              Reported / Included

German Water Hazard Classification Vw VwS: Product I.D. Number 1314 WGK class 1 (low hazard to water)

### **15.2 Chemical Safety Assessment**

Information is available on request.

## **SECTION 16: Other Information:**

This safety data sheet is based upon the current state of our knowledge and supersedes all previous versions.

The principal sources of information used in compiling the Safety Data Sheet for the product were:  
Safety Data Sheets from our component suppliers