

SAFETY DATA SHEET

Date: August 2015

Reference: DF/PJO

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

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/m³ (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/m³

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