



## UNIFRAX INDIA PRIVATE LIMITED

### MATERIAL SAFETY DATA SHEET ( M S D S )

FIXWOOL-FX

MSDS Number: MSDS F010(FW-FX)

Date of Issue 30<sup>th</sup> June,10

According to 91/155/CEE

Date of last revision 20<sup>th</sup> September,16



1 - IDENTIFICATION OF THE PRODUCTS AND OF THE COMPANY

TRADE NAMES: FIXWOOL FX DENOMINATION: Inorganic Adhesive  
Adhesive based on mixture of sodium silicate and milled alumina

2. COMPOSITION / INFORMATION OF INGREDIENTS OF FIXWOOL-FX

COMPONENT	CAS NUMBER	SYMBOL	R PHRASES
Sodium silicate	1344-09-8	Xi	R41/R38
Calcined Clay	66402-68-4	N/A	None

**COMPOSITION**

Chemical composition of Fixwool FX : <7%- Na, 20-25% SiO<sub>2</sub> and 70-75% Al<sub>2</sub>O<sub>3</sub>,

**DESCRIPTION**

Fixwool FX products are air setting, ready to use adhesives.

**Use of the product**

This silicate based adhesive is used to adhere fibre products to cold refractory brickwork or steelwork, it is best suited to thin product and should be applied using a brush, spatula or trowel. This product can be used up to temperatures of 1300°C in industrial furnaces, ovens, kilns, boilers and other process equipment. Should not be sold directly to the general public, restricted to professional users.

*Identification of the company*

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### 3 - HAZARD IDENTIFICATION

#### **IRRITANT EFFECTS**

Chemical irritation to skin, eyes and upper respiratory system may result from contact with this product due to the presence of sodium silicate, which is highly alkaline in nature.

### 4 - FIRST AID MEASURES

#### **SKIN**

In case of skin irritation rinse affected areas with soap and water. Obtain medical attention if symptoms develop.

#### **EYES**

In case of eye contact flush abundantly with water; have eye wash facilities to be kept close at hand. In all cases consult an ophthalmologist, even if no lesions are apparent.

#### **INGESTION**

Drink large amount of acidulated water. Obtain medical attention without delay.

### 5 - FIRE FIGHTING MEASURES

Non combustible products. Packaging and surrounding materials may be combustible.

Use extinguishing agent suitable for surrounding combustible materials.

### 6 – ACCIDENTAL RELEASE MEASURES

Wear goggles and gloves to avoid contact with eyes or skin. Contain spillage, absorb in earth or sand, and shovel into suitable containers. See section 13 for elimination of waste materials.

### 7 – HANDLING AND STORAGE

#### **HANDLING / TECHNIQUES TO REDUCE DUST EMISSIONS DURING HANDLING**

#### **HANDLING**

Wear suitable goggles, gloves and protective clothing when handling

#### **STORAGE**

Store at room temperature above 5°C and less than 20°C. Protect from freezing.



## 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Care must be taken during preparation and use of this product due to the alkalinity:

### ENGINEERING CONTROLS

As this is a wet product dust would not be created in normal use.

### PERSONAL PROTECTIVE EQUIPMENT

#### SKIN PROTECTION

Wear impermeable plastic or rubber gloves and suitable work clothes. Wash off splashes to skin immediately.

#### EYE PROTECTION

Wear goggles or safety glasses with side shields. Keep eye wash facilities close at hand.

#### RESPIRATORY PROTECTION

Exposure to airborne dust concentrations, would be unlikely as supplied and when used as intended.

#### INFORMATION AND TRAINING OF WORKERS

Smoking, eating and drinking at the workplace should be prohibited ;

The requirements for protective equipment and clothing.

The good working practices to exposure ;

The proper use of protective equipment.

#### ENVIRONMENTAL EXPOSURE CONTROLS

Refer to local, national or European applicable environmental standards for release to air, water and soil. For waste, refer to section 13

## 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Paste	Melting point	: >1300°C
Flammability	: N.A	Solubility in water	: <50%
Appearance	: light Cream	Explosive properties	: N.A
pH	: 9-12	Odour	: None

## 10 – STABILITY AND REACTIVITY

### STABILITY

This product is stable at ambient temperature. Material will harden and dry when exposed to air or heat sources.

### MATERIALS TO AVOID

Sodium silicate solution reacts with copper, aluminium, zinc, tin and their alloys evolving hydrogen gas. Dilute solutions have a minimal action on these materials. Sodium silicate solution reacts with acids and can react violently with hydrofluoric acid.



## 11 – TOXICOLOGICAL INFORMATION

### **HUMAN DATA**

#### **IRRITANT PROPERTIES**

The alkalinity of sodium silicate would present a chemical irritation to the skin and eyes, although the quantities contained within this product are quite low

#### **RESPIRATORY EFFECTS**

None expected in the normal use of the product, when the product has dried and during removal situations there is the potential for dust generation, which can affect pre-existing respiratory conditions. The calcined clay used to produce this product is of low acute toxicity, it is not classed as carcinogenic or genotoxic.

## 12 – ECOLOGICAL INFORMATION

This material must not be disposed into drains or water causes.

## 13 – DISPOSAL CONSIDERATIONS

Sodium silicate is categorised as a hazardous waste within the UK this is based on the percentage by weight of sodium silicate within the total load and can generally be disposed of at a landfill, which has been licensed for this purpose. Please refer to the European Waste Code (EWC) list (Decision no 2000/532/CE as modified) to identify your appropriate waste number, and insure national and or regional regulation are complied with. Taking into account any possible contamination during use, expert guidance should be sought.

The calcined clay used to produce this product contains <0.1% crystalline silica and would not be classed as hazardous waste, again national and regional regulations will need to be complied with. For virgin materials prior to use and without contamination the EWC most appropriate is 08 04 10

## 14 – TRANSPORT INFORMATION

Not classified as dangerous goods under relevant international transport regulations (ADR, RID, IATA, IMDG Refer Section 16 “Definitions”).



## 15 – REGULATORY INFORMATION

Sodium silicate is classified “Irritant” under the rules of the EEC “Dangerous Substances Directives” 67/548/EEC as amended by 92/32/EEC.

Risk Phrase R41,R38

Safety Phrases S26,S36/37/39

Symbol Xi

## 16 – OTHER INFORMATION

### **USEFUL REFERENCES (the directives which are cited must be considered in their amended version)**

Council Directive 89/391/EEC dated 12 June 1989 “on the introduction of measures to encourage improvements in the safety and health of workers at work” (OJEC L 183 of 29 June 1989,p.1)

Council Directive 67/548/EEC on the “approximation of the laws, regulations and administrative provision relating to the classification, packaging and labelling of dangerous substances as modified and adapted to the technical progress” (OJEC L 196 of 16 August 1967,p.1 and its modifications and adaptations to technical progress).

Official journal of the European Communities, 26/07/90

Council Directive 98/24/EC of 7th April 1998 “on the protection of the health and safety of workers from risks related to chemical agents at work” (OJEC L131 of 5th May 1998, P.11)

Circulaire DRT No 954 du 12/01/95- France

Circolare 15 marzo 2000, n.4 – Italy

### **DEFINITIONS**

**ADR** – Transport by road, council directive 94/55/EC

**IMDG** – Regulations relating to transport by sea

**RID** – Transport by rail, Council Directive 96/49/EC

**ICAO/IATA** - Regulations relating to transport by air