



Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: FORTAFIX CHROMIX - HIGH TEMPERATURE ADHESIVE

CAS number: 1344-09-8

EINECS number: 215-687-4

Product code: FF107

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

Use of substance / mixture: High temperature resistant inorganic adhesive.

1.3. Details of the supplier of the safety data sheet

Company name: Minkon Ltd
Tofts Farm Industrial Estate
Brenda Road
Hartlepool
TS25 2BS
United Kingdom

Tel: +44 (0) 1429 273 252

Fax: +44 (0) 1429 232 611

Email: enquiries@minkon.co.uk

1.4. Emergency telephone number

Emergency tel: +44 (0) 7970 462234

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: This product has no classification under CHIP.

Classification under CLP: This product has no classification under CLP.

2.2. Label elements

Label elements: This product has no label elements.

2.3. Other hazards

Other hazards: Alkaline Solution. Irritating to skin. Risk of serious damage to eyes.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

SAFETY DATA SHEET

FORTAFIX CHROMIX - HIGH TEMPERATURE ADHESIVE

Page: 2

3.2. Mixtures

Hazardous ingredients:

RAW MATERIAL - FFR112

EINECS	CAS	CHIP Classification	CLP Classification	Percent
238-878-4	14808-60-7	-	STOT RE 2: H373	1-10%

Non-classified ingredients:

RAW MATERIAL - IRON CHROMITE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	1308-31-2	-	-	30-50%

Contains: Alkaline Silicate Glass Solution.

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Wash out mouth with water.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Seek Medical Attention.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

[cont...]

SAFETY DATA SHEET

FORTAFIX CHROMIX - HIGH TEMPERATURE ADHESIVE

Page: 3

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with eyes and skin. Eye wash facilities should be readily available. Wear suitable protective equipment. See Section 8 - Personal Protection. General good safety practices should be followed in the handling and use of this product. NO SMOKING OR EATING OR DRINKING should be allowed in areas of storage or use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Local exhaust ventilation if solution is sprayed. Ensure good work practices. Wash splashes immediately. DO NOT eat, drink or smoke in the workplace.

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

[cont...]

SAFETY DATA SHEET

FORTAFIX CHROMIX - HIGH TEMPERATURE ADHESIVE

Page: 4

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: Brown/Grey

Odour: Odourless

Evaporation rate: Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Binder soluble in water/filler insoluble

Viscosity: Viscous

Relative density: 2.5-3.0

pH: >11.0

VOC g/l: 0

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
-------	---------	------	-------	-------

[cont...]

SAFETY DATA SHEET

FORTAFIX CHROMIX - HIGH TEMPERATURE ADHESIVE

Page: 5

ORL	RAT	LD50	1600-3200	mg/kg
-----	-----	------	-----------	-------

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Soluble silicates, upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms. Toxic to soil organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Waste code number: EWC 060299

Disposal of packaging: Contaminated containers must be completely emptied. Discharge of this product to sewage treatment works is dependent on local regulations with regard to pH controls. Due to its alkalinity, it is recommended that this product is classified as hazardous waste under EEC Directive 91/689/EEC (and amendments).

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

[cont...]

SAFETY DATA SHEET

FORTAFIX CHROMIX - HIGH TEMPERATURE ADHESIVE

Page: 6

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: All the alkali silicates, even those that are not classified as Dangerous Substances, are alkaline chemicals. Therefore contact with eyes, skin and clothes should be avoided and the usual procedures for handling all chemicals should be followed.

Shelf life - 12 months

This product is ROHS compliant.

This product is a water based adhesive cement - VOC Content 0 gram/litre

Phrases used in s.2 and s.3: H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.