



FLAT ROOFING

Safety data sheet

FIX-R GRP Topcoat | 001

GRP TOPCOAT

SECTION 1

Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form: Mixture

Product name: FIX-R GRP Topcoat

Product code: FXR018T, FXR009GT, FX005GT

Product group: Trade Product

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

1.2.1. Relevant identified uses

Use of the substance/mixture: Coating

1.3. Details of the supplier of the safety data sheet

FIX-R, Harding Way, St Ives, Cambridgeshire PE27 3YJ

Tel: 01480 466 777 Fax: 01480 290 133 Email: info@fix-r.co.uk www.fix-r.co.uk

1.4. Emergency telephone numbers:

NHS Tel: 111

SECTION 2

Hazards Identification

2.1. Classification of the substance or mixture

Flammable liquids, Category 3	H226
Acute toxicity (inhalation:dust,mist) Category 4	H332
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Reproductive toxicity, Category 2	H361
Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation	H335
Specific target organ toxicity - Repeated exposure, Category 1	H372
Hazardous to the aquatic environment - Chronic Hazard, Category 3	H412

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP) (as amended)

Hazard pictograms (CLP)

: GHS02 GHS07 GHS08



Signal words (CLP)

: Danger

Hazardous ingredients

: Styrene

Hazard statements (CLP)

: H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H361 - Suspected of damaging fertility or the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P280 - Wear protective gloves, protective clothing, eye protection.

P241 - Use explosion-proof electrical equipment.

P271 - Use only outdoors or in a well-ventilated area.

P370+P378 - In case of fire: Use Water fog, foam, extinguishing powder, carbon dioxide (CO₂) to extinguish.

P264 - Wash hands thoroughly after handling.

P210 - Keep away from heat, hot surfaces, sparks, open flames. No smoking.

2.3. Other hazards

No additional information available.

SECTION 3

Composition/Information on Ingredients

3.2. Mixtures

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Styrene	(CAS-No.) 100-42-5 (EC-No.) 202-851-5 (EC Index-No.) 601-026-00-0 (REACH-no) 01-2119457861-32	30 - 40	Flam Liq.3, H226 Acute Tox. Not classified (Dermal) Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H335 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
ethanediol, ethylene glycol substance with a Community workplace exposure limit	(CAS-No.) 107-21-1 (EC-No.) 203-473-3 (EC Index-No.) 603-027-00-1 (REACH-no) 01-2119472426-35	< 1	Acute Tox. 4 (Oral), H302 STOT RE 2, H373
2-butoxyethanol substance with a Community workplace exposure limit	(CAS-No.) 111-76-2 (EC-No.) 203-905-0 (EC Index-No.) 603-014-00-0 (REACH-no) 01-2119475108-36	< 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4

First Aid Measures

4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects after skin contact : Irritation.
- Symptoms/effects after eye contact : Eye irritation.

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

Treat symptomatically.

SECTION 5

Fire-fighting Measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Flammable liquid and vapour.
- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Use water spray or fog for cooling exposed containers. Prevent entry to sewers and public waters.
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SECTION 6

Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Do not breathe vapours, fume.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7

Handling and Storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe fume. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.
- Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8

Exposure Controls/Personal Protection

8.1. Control parameters

Styrene (100-42-5)

EU	Local name	Styrene
EU	Notes	(Ongoing)
EU	Regulatory reference	SCOEL Recommendations
United Kingdom	WEL STEL (mg/m ³)	1080 mg/m ³
United Kingdom	WEL STEL (ppm)	250 ppm

ethanediol, ethylene glycol (107-21-1)

EU	IOELV TWA (mg/m ³)	246 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	492 mg/m ³
EU	IOELV STEL (ppm)	100 ppm

2-butoxyethanol (111-76-2)

EU	Local name	2-Butoxyethanol
EU	IOELV TWA (mg/m ³)	98 mg/m ³

2-butoxyethanol (111-76-2)

EU	IOELV TWA (ppm)	20 ppm
EU	IOELV STEL (mg/m ³)	246 mg/m ³
EU	IOELV STEL (ppm)	50 ppm
EU	Notes	Skin

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
Hand protection : Chemical resistant gloves (according to European standard NF EN 374 or equivalent). Protective gloves made of PVC. neoprene gloves. Nitrile rubber gloves.
Eye protection : Safety glasses.
Skin and body protection : Wear suitable protective clothing.
Respiratory protection : Wear appropriate mask.

Device	Filter type	Condition	Standard
	Type A - High-boiling (>65°C) organic compounds		

Personal protective equipment symbol(s):



SECTION 9

Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Grey
Odour	Characteristic
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	- 31°C (Styrene)
Freezing point	No data available
Boiling point	145°C (Styrene)
Flash point	31°C (Styrene)
Auto-ignition temperature	490°C (Styrene)
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20°C	No data available
Relative density	1.35 - 1.45
Solubility	No data available
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Lower explosive limit (LEL)	1.1 %(V) (Styrene)
Upper explosive limit (UEL)	6.1 %(V) (Styrene)

9.2. Other information

No additional information available.

SECTION 10

Stability and Reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11

Toxicological Information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.
Acute toxicity (dermal) : Not classified.
Acute toxicity (inhalation) : Inhalation: dust, mist: Harmful if inhaled.

ATE CLP (dust, mist)	4.987 mg/l/4h
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Styrene (100-42-5)

LD50 oral rat	≈ 5000 mg/kg
LD50 dermal rat	2000 mg/kg
LC50 inhalation rat (mg/l)	11.8 mg/l

ethanediol, ethylene glycol (107-21-1)

LD50 dermal	> 3500 mg/kg mouse
LC50 inhalation rat (mg/l)	> 2.5 mg/l 6 h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified.
Germ cell mutagenicity : Not classified.
Carcinogenicity : Not classified.
Reproductive toxicity : Suspected of damaging fertility or the unborn child.
STOT-single exposure : May cause respiratory irritation.
STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard : Not classified.

SECTION 12

Ecological Information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity : Not classified.
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Styrene (100-42-5)

LC50 fish 1	4.02 mg/l (96 h) (Pimephales promelas)
EC50 Daphnia 1	4.7 mg/l (48 h) (Daphnia magna)
EC50 72h algae (1)	4.9 mg/l (Pseudokirchneriella subcapitata)
ErC50 (algae)	4.9 mg/l (Pseudokirchneriella subcapitata)

ethanediol, ethylene glycol (107-21-1)

LC50 fish 1	72860 mg/l Pimephales promelas
EC50 Daphnia 1	> 100 mg/l Daphnia magna, 48 h
EC50 96h algae (1)	6500 - 13000 mg/l Selenastrum capricornutum
NOEC chronic fish	15380 mg/l Pimephales Promelas
NOEC chronic crustacea	8590 mg/l Ceriodaphnia Dubia
ErC50 (algae)	4.9 mg/l (Pseudokirchneriella subcapitata)

12.2. Persistence and degradability**ethanediol, ethylene glycol (107-21-1)**

Biodegradation	90 - 100 %
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12.3. Bioaccumulative potential**Styrene (100-42-5)**

Log Pow	2.96
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12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No additional information available.




SECTION 13**Disposal Considerations****13.1. Waste treatment methods**

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14**Transport Information**

In accordance with ADR / IATA / IMDG

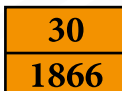
		ADR	IMDG	IATA
14.1.	UN number	1866	1866	1866
14.2.	UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION	RESIN SOLUTION
	Transport document description	UN 1866 RESIN SOLUTION, 3, III, (D/E)	UN 1866 RESIN SOLUTION, 3, III	UN 1866 RESIN SOLUTION, 3, III
14.3.	Transport hazard class(es)	3 	3 	3 
14.4.	Packing group	III	III	III
14.5.	Environmental hazards	Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No

No supplementary information available.

14.6. Special precautions for user

Overland transport

Special provisions (ADR) : 640E
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •3YE

Transport by sea

EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : A
Properties and observations (IMDG) : Miscibility with water depends upon the composition.

Air transport

PCA packing instructions (IATA) : 355
CAO packing instructions (IATA) : 366
ERG code (IATA) : 3L

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15

Regulatory Information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions.
Contains no substance on the REACH candidate list.
Contains no REACH Annex XIV substances.

15.1.2. National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16

Other information

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity - Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity - Repeated exposure, Category 2

STOT RE 3	Specific target organ toxicity - Single exposure, Category 3, Respiratory tract irritation.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Flam. Liq. 3	H226	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 1	H372	Calculation method
Aquatic Chronic 3	H412	Calculation method

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.