FLEXI-GRP

SECTION 1

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

1.1. Product identifier
Product form: Mixture
Product name: FIX-R FLEXI-GRP
Product code: 10665401
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:
01480 466777 Monday - Friday 8h30 - 17h00

SECTION 2

Hazards Identification

2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3	H226
Acute toxicity (inhal.), 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

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.

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) for extinction.
P264 - Wash hands thoroughly after handling.
P210 - Keep away from heat, hot surfaces, sparks, open flames. — No smoking.

EUH-statements : EUH208 - Contains Cobalt bis (2-ethylhexanoate). May produce an allergic reaction.

2.3. Other hazards

No additional information available.

SECTION 3

Composition/Information on Ingredients

3.1. Substances

Not applicable

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	20 - 30	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
MONOETHYLENE 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

N, N Dimethylaniline	(CAS-No.) 121-69-7 (EC-No.) 204-493-5 (EC Index-No.) 612-016-00-0	< 1	Carc. 2, H351 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Aquatic Chronic 2, H411
Cobalt bis(2-ethylhexanoate)	(CAS-No.) 136-52-7 (EC-No.) 205-250-6 (REACH-no) 01-2119524678-29	< 1	Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 3, H412
2-methoxy-1-methylethyl acetate substance with a Community workplace exposure limit	(CAS-No.) 108-65-6 (EC-No.) 203-603-9 (EC Index-No.) 607-195-00-7	< 1	Flam. Liq. 3, H226
Phosphoric acid substance with a Community workplace exposure limit	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6	< 1	Skin Corr. 1B, H314
substance with a Community workplace exposure limit (	(CAS-No.) 78-93-3 (EC-No.) 201-159-0 (EC Index-No.) 606-002-00-3 (REACH-no) 01-2119457290-43	< 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Specific concentration limits:

Name	Product Identifier	Specific concentration limits
Phosphoric acid	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6	(10 ≤C < 25) Eye Irrit. 2, H319 (10 ≤C < 25) Skin Irrit. 2, H315 (25 ≤C < 100) Skin Co rr. 1B, H314

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.

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

Phosphoric acid (7664-38-2)

EU - Occupational Exposure Limits

Local name	Orthophosphoric acid
IOELV TWA (mg/m³)	1 mg/m³
IOELV STEL (mg/m³)	2 mg/m³

2-methoxy-1-methylethyl acetate (108-65-6)

EU - Occupational Exposure Limits

Local name	2-Methoxy-1-methylethylacetate
IOELV TWA (mg/m³)	275 mg/m³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m³) 550 mg/m³	550 mg/m³
IOELV STEL (ppm)	100 ppm

2-methoxy-1-methylethyl acetate (108-65-6)

Notes	Skin

MONOETHYLENE GLYCOL (107-21-1)

EU - Occupational Exposure Limits

IOELV TWA (mg/m³)	246 mg/m³
IOELV TWA (ppm)	50 ppm
IOELV STEL (mg/m³)	492 mg/m³
IOELV STEL (ppm)	100 ppm

Styrene (100-42-5)

United Kingdom - Occupational Exposure Limits

WEL STEL (mg/m³)	1080 mg/m³
WEL STEL (ppm)	250 ppm

(78-93-3)

EU - Occupational Exposure Limits

Local name	Butanone
IOELV TWA (mg/m³)	600 mg/m³
IOELV TWA (ppm)	200 ppm
IOELV STEL (mg/m³)	900 mg/m³
IOELV STEL (ppm)	300 ppm

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 g loves. 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
Partition coefficient n-octanol/water (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) : Harmful if inhaled.

TOP COAT 7300 GREY 71096 MGT PRE_ACCELERATED

ATE CLP (gases)	4.987 mg/l/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1,5 mg/l/4h

MONOETHYLENE GLYCOL (107-21-1)

LD50 dermal	> 3500 mg/kg mouse
LC50 inhalation rat (mg/l)	> 2,5 mg/l 6 h

N, N Dimethylaniline (121-69-7)

LD50 oral rat	951 mg/kg
LD50 dermal rabbit	1962 mg/kg
LC50 inhalation rat (mg/l)	> 5,1 mg/l/4h

Styrene (100-42-5)

LD50 oral rat ffi 5000 mg /kg	≈ 5000 mg /kg
LD50 dermal rat	2000 mg/kg
LC50 inhalation rat (mg/l)	11,8 mg/l

(78-93-3)

LD50 oral	> 2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 20 mg/l/4h

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.

Hazardous to the aquatic environment, short-term : Not classified (acute)

Hazardous to the aquatic environment, long-term : Not classified (chronic).

MONOETHYLENE 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

N, N Dimethylaniline (121-69-7)

LC50 fish 1	65,6 mg/l (Pimephales promelas; 96h)
EC50 Daphnia 1	≤ 5 mg /l (Dap hnia mag na)

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)

(78-93-3)

EC50 Daphnia 1	> 100 mg/l

12.2. Persistence and degradability

MONOETHYLENE GLYCOL (107-21-1)

Biodegradation	90 - 100 %

12.3. Bioaccumulative potential

Styrene (100-42-5)

Partition coefficient n-octanol/water (Log Pow)	2,96

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

Classification code (ADR) : F1

Limited quantities (ADR) : 5l

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T2

Portable tank and bulk container special provisions (ADR) : TP1

Tank code (ADR) : LGBF

Vehicle for tank carriage : FL

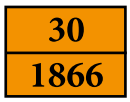
Transport category (ADR) : 3

Special provisions for carriage -

Special provisions for carriage - Operation (ADR) : V12

Hazard identification number (Kemler No.) : 30

Orange plates :



Tunnel restriction code (ADR) : D/E

EAC code : •3YE

Transport by sea

Special provisions (IMDG)	:	223, 955
Limited quantities (IMDG)	:	5 L
Excepted quantities (IMDG)	:	E1
Packing instructions (IMDG)	:	P001, LP01
Special packing provisions (IMDG)	:	PP1
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	T2
Tank special provisions (IMDG)	:	TP1
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 Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y344
PCA limited quantity max net quantity (IATA)	:	10L
PCA packing instructions (IATA)	:	355
PCA max net quantity (IATA)	:	60L
CAO packing instructions (IATA)	:	366
CAO max net quantity (IATA)	:	220L
Special provisions (IATA)	:	A3
ERG code (IATA)	:	3L

14.7. Transport in bulk according to Annex II of Marpol 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

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

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. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3

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 Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction.

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)	H332	Annex VII conversion
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

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.