



FLAT ROOFING

Safety data sheet

FIX-R Lap Sealant | 001

LAP SEALANT

SECTION 1

Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Product form: Mixture

Product name: FIX-R Lap Sealant

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: Sealant for EPDM Single-Ply Roofing Membranes. Product for industrial use only

1.2.2. Uses advised against

No additional information available

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 number

Emergency number: 01480 466777

SECTION 2

Hazards Identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2 H225

Skin Irrit. 2 H315

STOT SE 3 H336

STOT RE 1 H372

Aquatic Chronic 2 H411

Full text of H-statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11

Xn; R48/20

Xi; R38

N; R51/53

R67

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) : GH502 GH507 GH508 GH509



Signal word (CLP) : Danger

Hazardous ingredients : Solvent naphtha (petroleum), light aliph., Solvent naphtha (petroleum), medium aliph.

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H372 - Causes damage to organs (central nervous system) through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P332+P313 - If skin irritation occurs: Get medical advice/attention
P405 - Store locked up
P501 - Dispose of contents/container to an authorised waste collection point

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3

Composition/Information on Ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Calcium carbonate	(CAS No) 1317-65-3 (EC No.) 215-279-6	10 - 30	Not classified
Solvent naphtha (petroleum), light aliph.	(CAS No) 64742-89-8 (EC No.) 265-192-2 (EC index No.) 649-267-00-0	10 - 30	F+; R12 Xi; R38 Xn; R65 R67 N; R51/53
Solvent naphtha (petroleum), medium aliph.	(CAS No) 64742-88-7 (EC No.) 265-191-7 (EC index No.) 649-405-00-X	10 - 30	R10 Xi; R38 Xn; R65 Xn; R48/20 N; R51/53
Residual oils (petroleum,) solvent-refined	(CAS No) 64742-01-4 (EC No.) 265-101-6 (EC index No.) 649-459-00-4	3 - 7	Xn; R65
Silicon dioxide	(CAS No) 7631-86-9 (EC No.) 231-545-4	1 - 3	Not classified
Carbon black	(CAS No) 1333-86-4 (EC No.) 215-609-9	1 - 3	Not classified
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	(CAS No) 9003-29-6 (EC No.) 500-004-7	1 - 5	Xn; R65 Xi; R38

Mica	(CAS No) 12001-26-2 (EC No.) -	0.1 - 1	Not classified
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	(CAS No) 68610-51-5 (EC No.) 271-867-2	0.1 - 1	R53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium carbonate	(CAS No) 1317-65-3 (EC No.) 215-279-6	10 - 30	Not classified
Solvent naphtha (petroleum), light aliph.	(CAS No) 64742-89-8 (EC No.) 265-192-2 (EC index No.) 649-267-00-0	10 - 30	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Solvent naphtha (petroleum), medium aliph.	(CAS No) 64742-88-7 (EC No.) 265-191-7 (EC index No.) 649-405-00-X	10 - 30	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 1, H372 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Residual oils (petroleum,) solvent-refined	(CAS No) 64742-01-4 (EC No.) 265-101-6 (EC index No.) 649-459-00-4	3 - 7	Asp. Tox. 1, H304
Silicon dioxide	(CAS No) 7631-86-9 (EC No.) 231-545-4	1 - 3	Not classified
Carbon black	(CAS No) 1333-86-4 (EC No.) 215-609-9	1 - 3	Not classified
Butene, homopolymer (products derived from either/or But-1-ene/But-2-ene)	(CAS No) 9003-29-6 (EC No.) 500-004-7	1 - 5	Skin Irrit. 2, H315 Asp. Tox. 1, H304
Mica	(CAS No) 12001-26-2 (EC No.) -	0.1 - 1	Not classified
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene	(CAS No) 68610-51-5 (EC No.) 271-867-2	0.1 - 1	Aquatic Chronic 4, H413

Full text of R- and H- statements: see section 16

SECTION 4

First Aid Measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop, obtain medical attention.
- First-aid measures after skin contact : Immediately remove contaminated clothing or footwear. Rinse skin with plenty of water or shower. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids is thoroughly washed with water. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop, obtain medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Give 100 - 200 ml of water to drink. Do not give an unconscious person anything to drink. Obtain immediate medical attention.

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

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : May cause eye irritation.
- Symptoms/injuries after ingestion : Ingestion may cause irritation of the gastrointestinal tract.

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 : Dry chemical. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use water jet. Water may be ineffective.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
Explosion hazard : Containers may rupture when heated.
Hazardous decomposition products in case of fire : Fire may produce irritating, corrosive and/or toxic gases. Carbon monoxide. Carbon dioxide.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting : Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6

Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Remove all sources of ignition. Evacuate unnecessary personnel. Ensure adequate ventilation.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing and eye or face protection.
Emergency procedures : Remove all sources of ignition. Use only non-sparking tools. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Ensure adequate ventilation. Avoid inhalation of vapours. Avoid contact with skin and eyes.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb with earth, sand or other non-combustible material, allow to cure, and transfer to containers for later disposal. Wash spill area with soapy water. Washings must be prevented from entering surface water drains.

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

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. Ensure equipment is adequately grounded. Use only explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Provide adequate ventilation. Use only outdoors or in a well-ventilated area. Avoid inhalation of vapours. Avoid contact with skin, eyes and clothing.
- Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep away from open flames, hot surfaces and sources of ignition.
- Storage conditions : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a dry place. Keep cool.
- Incompatible materials : Strong acids. Strong alkalis. Strong oxidizing agents.

7.3. Specific end use(s)

Sealant for EPDM Single-Ply Roofing Membranes. Product for industrial use only.

SECTION 8

Exposure Controls/Personal Protection

8.1. Control parameters

Silicon dioxide (7631-86-9)

United Kingdom	WEL TWA (mg/m ³)	6 mg/m ³ inhalable dust 2.4 mg/m ³ respirable dust
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Calcium carbonate (1317-65-3)

United Kingdom	Local name	Calcium carbonate
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ inhalable dust 4 mg/m ³ respirable dust

Carbon black (1333-86-4)

United Kingdom	Local name	Carbon black
United Kingdom	WEL TWA (mg/m ³)	3.5 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	7 mg/m ³

Mica (12001-26-2)

United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ total inhalable 0.8 mg/m ³ respirable
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Quartz (14808-60-7)

United Kingdom	WEL TWA (mg/m ³)	0.1 mg/m ³
United Kingdom	WEL STEL (mg/m ³)	0.3 mg/m ³

8.2. Exposure controls

- Appropriate engineering controls : Provide adequate ventilation. Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Avoid all unnecessary exposure.
- Hand protection : Wear chemically resistant protective gloves. Standard EN 374 - Protective gloves against chemicals. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.
- Eye protection : Chemical goggles or face shield. Standard EN 166 - Personal eye-protection.
- Skin and body protection : Long sleeved protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazard protection : Not required for normal conditions of use.
Environmental exposure controls : Avoid release to the environment.
Other information : Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures. Contaminated work clothing should not be allowed out of the workplace.

SECTION 9

Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Viscous. Paste.
Colour	Black.
Odour	Hydrocarbon.
Odour threshold	No data available
pH	No data available
Relative evaporation rate (butylacetate=1)	3.5
Melting point	< 18 °C
Freezing point	< 18 °C
Boiling point	119 - 185°C
Flash point	4.4°C (Tag closed cup)
Auto-ignition temperature	230°C
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	8.27 mm Hg
Relative vapour density at 20°C	4 (air = 1)
Relative density	1.03 - 1.04 (Water = 1)
Solubility	Insoluble in water.
Log Pow	No data available
Log Kow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	1100000 mPa·s
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Explosive limits	0.8 - 6.7 vol %

9.2. Other information

VOC content : 390 - 400 g/l

SECTION 10

Stability and Reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Ignition sources. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Fire may produce irritating, corrosive and/or toxic gases. Nitrogen oxides. Carbon monoxide. Carbon dioxide.

SECTION 11

Toxicological Information

11.1. Information on toxicological effects

Acute toxicity : Not classified. Based on available data, the classification criteria are not met.

Solvent naphtha (petroleum), light aliph. (64742-89-8)

LD50 oral rat	> 5000 mg/Kg
LD50 dermal rabbit	> 2000 mg/Kg
LC50 inhalation rat (mg/l)	> 5610 mg/l/4h

Residual oils (petroleum,) solvent-refined (64742-01-4)

LD50 oral rat	> 5000 mg/Kg
LD50 dermal rabbit	> 2000 mg/Kg
LC50 inhalation rat (mg/l)	> 5.53 mg/l/4h

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene (68610-51-5)

LD50 oral rat	> 5000 mg/Kg
LD50 dermal rabbit	> 2000 mg/Kg

Solvent naphtha (petroleum), medium aliph. (64742-88-7)

LD50 oral rat	> 5000 mg/Kg
LD50 dermal rabbit	> 2000 mg/Kg

Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Not classified. Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	:	Not classified. Based on available data, the classification criteria are not met.
Germ cell mutagenicity	:	Not classified. Based on available data, the classification criteria are not met.
Carcinogenicity	:	Not classified. Based on available data, the classification criteria are not met.
Reproductive toxicity	:	Not classified. Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure)	:	May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	:	Causes damage to organs (central nervous system) through prolonged or repeated exposure.
Aspiration hazard	:	Not classified. Based on available data, the classification criteria are not met.
Potential adverse human health effects and symptoms	:	Causes skin irritation. May cause eye irritation. Vapours may cause drowsiness and dizziness. Ingestion may cause irritation of the gastrointestinal tract.
Other information	:	This product contains crystalline silica, however this component is bound by the polymer portion of the sealant. Exposure to this component would only occur if the product was incinerated.

SECTION 12

Ecological Information

12.1. Toxicity

Ecology - water : Toxic to aquatic life with long lasting effects.

Solvent naphtha (petroleum), light aliph. (64742-89-8)

EL50	3.1 mg/l (72 Hours, Growth rate, Pseudokirchnerella subcapitata)
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Residual oils (petroleum,) solvent-refined (64742-01-4)

LC50	> 5000 mg/l (96 Hours, Oncorhynchus mykiss (Rainbow trout))
EC50	> 1000 mg/l (96 Hours, Daphnia magna)

Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene (68610-51-5)

LC50	> 0.2 mg/l (96 Hours, semi-static, Oncorhynchus mykiss (Rainbow trout))
EC50	> 0.2 mg/l (48 Hours, semi-static, Daphnia magna)
EC50	> 0.2 (48 Hours, static test, Pseudokirchnerella subcapitata)

Solvent naphtha (petroleum), medium aliph. (64742-88-7)

LC50	800 mg/l (96 Hours, static test, Pimephales promelas)
EC50	> 100 mg/l (48 Hours, Daphnia magna)
EC50	450 mg/l (96 Hours, Pseudokirchnerella subcapitata)

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

Ecology - soil : Insoluble in water.

12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Avoid release to the environment

SECTION 13

Disposal Considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of this material and its container at hazardous or special waste collection point.




Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Additional information : Handle empty containers with care.

SECTION 14

Transport Information

In accordance with ADR / RID / IMDG / IATA / ADN

		ADR/RID	IATA	IMDG
14.1.	UN number	1133	1133	1133
14.2.	UN proper shipping name	ADHESIVES	ADHESIVES	ADHESIVES
	Transport document description	UN 1133 ADHESIVES (), 3, II		
14.3.	Transport hazard class(es)	3  Hazard labels : 3	3  Hazard labels : 3	3  Hazard labels : 3
14.4.	Packing group	II	II	II

14.5. Environmental hazards

Dangerous for the environment :
Marine pollutant



Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : No special precautions required.

14.6.1. Overland transport

No additional information available.

14.6.2. Transport by sea

No additional information available.

14.6.3. Air transport

No additional information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

Authorisations and/or restrictions on use (Annex XVII):

3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Lap Sealant
3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Lap Sealant
3.c. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Lap Sealant

Contains no substance on the REACH candidate list
VOC content : 390 - 400 g/l

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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-statements

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
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity - Single exposure, Category 3, Narcosis
H224	Extremely flammable liquid and vapour
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
H413	May cause long lasting harmful effects to aquatic life
R10	Flammable
R11	Highly flammable
R12	Extremely flammable
R38	Irritating to skin
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
F+	Extremely flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NCEC SDS EU (REACH ANNEX II)

Legal disclaimer

The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. In many instances, especially when proprietary or trade secret materials are used, CCWI Company must rely upon the hazard evaluation of such components submitted by that product's manufacturer or importer. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.