



FLAT ROOFING

# BONDING ADHESIVE

## SECTION 1

### Identification of the Product and Company Identification

**Product Name:** FIX-R Bonding Adhesive

**Revision:** 06/2015

**Use of Substance:** Adhesive

**Suppliers Details:** FIX-R, Harding Way, St Ives, Cambridgeshire PE27 3YJ

Tel: 01480 466 777 Fax: 01480 290 133 Email: [info@fix-r.co.uk](mailto:info@fix-r.co.uk) [www.fix-r.co.uk](http://www.fix-r.co.uk)

## SECTION 2

### Hazards Identification

#### 2.1. Classification of the substance or mixture

Classification under CHIP : F: R11; Xi: R38; N: R51/53; -: R67

Classification under CLP : Aquatic Chronic 2: H411

Eye Irrit. 2: H319

Flam. Liq. 2: H225

Resp. Sens. 1: H334

Skin Irrit. 2: H315

STOT RE 2: H373

STOT SE 3: H336

EUH208

Most important adverse effects : Highly flammable. Irritating to skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness.

#### 2.2. Label elements

##### Label elements under CLP:

Hazard statements : EUH208: Contains zinc bis (dibutyldithiocarbamate). May produce an allergic reaction.

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336: May cause drowsiness or dizziness.

H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

Signal words : Danger

Hazard pictograms : GHS02: Flame  
GHS07: Exclamation mark  
GHS08: Health hazard  
GHS09: Environmental



Precautionary statements : P260: Do not breathe.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P303+361+353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P304+341: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

Other hazards : In use, may form flammable / explosive vapour-air mixture.  
PBT : This product is not identified as a PBT/vPvB substance.

## SECTION 3

### Composition/Information on Ingredients

Hazardous ingredients:

#### HYDROCARBONS, C6-C7, N-ALKANES, ISOALKANES, CYCLICS, <5% N-HEXANE

EINECS	CAS	Chip Classification	CLP Classification	Percent
-	-	Xn: R65; Xi: R38; F: R11; N: R51/53	Flam. Liq. 2: H225; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT SE 3: H336	10-30%

#### NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT - REACH registered number(s): 01-2119475133-43-0001

EINECS	CAS	Chip Classification	CLP Classification	Percent
265-151-9	64742-49-0	F: R11; Xi: R38; N: R51/53; Xn: R65; -: R67	Flam. Liq. 2: H225; STOT SE 3: H336; Resp. Sens. 1: H334; Asp. Tox. 1: H304; Aquatic Chronic 2: H411; Skin Irrit. 2: H315; STOT RE 2: H373; -: H361	10-30%

#### ETHYL ACETATE - REACH registered number(s): 01-2119475103-46

EINECS	CAS	Chip Classification	CLP Classification	Percent
205-500-4	141-78-6	F: R11; Xi: R36; -: R66; -: R67	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336; -: EUH066	10-30%

#### N-HEXANE - REACH registered number(s): 01-2119480412-44-0000

EINECS	CAS	Chip Classification	CLP Classification	Percent
203-777-6	110-54-3	F: R11; Xi: R38; Xn: R48/20; Xn: R62; Xn: R65; -: R67; N: R51/53	Flam. Liq. 2: H225; Repr. 2: H361f; Asp. Tox. 1: H304; STOT RE 2: H373; Skin Irrit. 2: H315; STOT SE 3: H336; Aquatic Chronic 2: H411	<1%

#### ZINC BIS(DIBUTYLDITHIOCARBAMATE)

EINECS	CAS	Chip Classification	CLP Classification	Percent
205-232-8	136-23-2	Xi: R36/37/38; Sens.: R43; N: R50/53	Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	<1%

## SECTION 4

### First Aid Measures

#### 4.1. Description of first aid measures

Skin contact	:	Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist.
Eye contact	:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion	:	Wash out mouth with water. Consult a doctor.
Inhalation	:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor if symptoms persist.

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

Skin contact	:	There may be irritation and redness at the site of contact.
Eye contact	:	There may be irritation and redness. The eyes may water profusely.
Ingestion	:	There may be soreness and redness of the mouth and throat.
Inhalation	:	There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
Delayed / immediate effects	:	Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment	:	Eye bathing equipment should be available on the premises.
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## SECTION 5

### Fire-fighting Measures

#### 5.1. Extinguishing media

Extinguishing media	:	Alcohol resistant foam. Carbon dioxide. Dry chemical powder. Use water spray to cool containers.
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#### 5.2. Special hazards arising from the substance or mixture

Exposure hazards	:	Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.
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#### 5.3. Advice for firefighters

Advice for fire-fighters	:	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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## 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. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Eliminate all sources of ignition.
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#### 6.2. Environmental precautions

Environmental precautions	:	Do not discharge into drains or rivers. Contain the spillage using bunding.
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#### 6.3. Methods and material for containment and cleaning up

Clean-up procedures	:	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Do not use equipment in clean-up procedure which may produce sparks.
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#### 6.4. Reference to other sections

Reference to other sections:	Refer to section 8 of SDS.
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## SECTION 7

### Handling and Storage

#### 7.1. Precautions for safe handling

Handling requirements : Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Smoking is forbidden. Use non-sparking tools.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in cool, well ventilated area. Keep container tightly closed. Keep away from sources of ignition. Prevent the build-up of electrostatic charge in the immediate area. Ensure lighting and electrical equipment are not a source of ignition.

#### 7.3. Specific end use(s)

Specific end use(s) : No data available.

## SECTION 8

### Exposure Controls/Personal Protection

Hazardous ingredients :

#### NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT

Workplace exposure limits : Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	1000mg/m <sup>3</sup>	1000mg/m <sup>3</sup>	-	-

#### ETHYL ACETATE

UK	200 ppm	400 ppm	-	-
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#### N-HEXANE

UK	72 mg/m <sup>3</sup>	-	-	-
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#### DNEL/PNEC Values

DNEL / PNEC No data available.

#### 8.2. Exposure controls

Engineering measures : Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

Respiratory protection : If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

Hand protection : Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves. For low exposure use nitrile gloves. The user has a legal duty to carry out a COSHH risk assessment to determine the correct glove.

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

Skin protection : Protective clothing.

## SECTION 9

### Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

State	Liquid	Boiling point/range °C	60
Colour	Cream	Flammability limits %	lower: 1.0 upper: 13
Evaporation rate	Fast	Flash point °C	-26
Oxidising	Non-oxidising (by EC criteria)	Autoflammability °C	275
Solubility in water	Insoluble	Relative density	0.83
Viscosity	Viscous		

## 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. Stable at room temperature.

#### 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. Hot surfaces. Sources of ignition. Flames.

#### 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
DERMAL	RBT	LD50	<2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg
VAPOURS	RAT	4H LC50	>5	mg/l

Hazardous ingredients:

#### NAPHTHA (PETROLEUM) , HYDROTREATED LIGHT

ORL	RAT	LD50	>5000	mg/kg
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#### ETHYL ACETATE

ORL	MUS	LD50	4100	mg/kg
ORL	RAT	LD50	5620	mg/kg
SCU	RAT	LDLO	5	mg/kg

#### N-HEXANE

IPR	RAT	LDLO	9100	mg/kg
IVN	MUS	LDLO	831	mg/kg
ORL	RAT	LD50	25	mg/kg

#### ZINC BIS(DIBUTYLDITHIOCARBAMATE)

IPR	MUS	LD50	100	mg/kg
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Relevant effects for mixture:

Effect	Route	Basis
Irritation	DRM	Hazardous: calculated

Symptoms / routes of exposure

- Skin contact : There may be irritation and redness at the site of contact.
- Eye contact : There may be irritation and redness. The eyes may water profusely.
- Ingestion : There may be soreness and redness of the mouth and throat.
- Inhalation : There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.
- Delayed / immediate effects : Immediate effects can be expected after short-term exposure.

## SECTION 12

### Ecological Information

#### 12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ALGAE	96H LC50	>1-10	mg/l
FISH	96H LC50	>1-10	mg/l

#### 12.2. Persistence and degradability

Persistence and degradability : Biodegradable in part only.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential : Bioaccumulation potential.

#### 12.4. Mobility in soil

Mobility : Readily absorbed into soil.

#### 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.

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## SECTION 13

### Disposal Considerations

#### 13.1. Waste treatment methods

Disposal operations : Wet waste: Arrange for disposal by a licenced waste disposal company.

Disposal of packaging : Arrange for disposal by a licenced waste disposal company.

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

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## SECTION 14

### Transport Information

#### 14.1. UN number

UN number : UN1133

#### 14.2. UN proper shipping name

Shipping name : ADHESIVES

#### 14.3. Transport hazard class(es)

Transport class : 3

#### 14.4. Packing group

Packing group : II

#### 14.5. Environmental hazards

Environmentally hazardous : Yes

Marine pollutant : No

#### 14.6. Special precautions for user

Special precautions : No special precautions.

Tunnel code : D/E

Transport category : 2

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## SECTION 15

### Regulatory Information

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

Specific regulations : This product is classified as a mixture. CLP classification for information only.

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## SECTION 16

### Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3:

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains <name of sensitising substance>. May produce an allergic reaction.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child <state specific effect if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H361f	Suspected of damaging fertility.
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>.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
R11	Highly flammable.
R36/37/38	Irritating to eyes, respiratory system and skin.
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

#### Legal disclaimer

The above information supplied in this MSDS is designed only as guidance for the safe use, storage and handling of the product. The information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This company shall not be held liable for any damage resulting from handling or from contact with the above product.