



# SAFETY DATA SHEET

## FusionFix GP Spray Adhesive

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

#### 1.1. Product identifier

**Product name** FusionFix GP Spray Adhesive

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

**Description** Sprayable adhesive for dry lay up of reinforcements for the vacuum infusion process.

#### 1.3. Details of the supplier of the safety data sheet

**Company** Easy Composites Ltd  
Unit 39,  
Park Hall Business Village  
Longton, Stoke-on-Trent  
ST3 5XA  
United Kingdom

**Email** sales@easycomposites.co.uk

#### 1.4. Emergency telephone number

**Telephone** +44 (0)1782 454499

### 2. HAZARDS IDENTIFICATION

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

**Classification - 67/548/EEC** Extremely flammable (F+, R 12).  
Eye irritation (Xi, R 36).  
Repeated exposure may cause skin dryness or cracking (R 66).  
Vapours may cause drowsiness and dizziness (R 67).  
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**Classification - EC 1272/2008** Flammable aerosol, Category 1 (Flam. Aerosol 1, H222).  
Repeated exposure may cause skin dryness or cracking (EUH066).  
Eye irritation, Category 2 (Eye Irrit. 2, H319).  
Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).  
This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

##### Hazard pictograms



##### Signal Word

Danger

##### Product identifier

606-001-00-8 ACETONE

##### Hazard statements

H222 Extremely Flammable aerosol.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

##### Precautionary statements

EUH066 Repeated exposure may cause skin dryness or cracking.  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Pressurized container: Do not pierce or burn, even after use.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P501 Dispose of contents/container as hazardous waste

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substances

3.2 Composition	Conc.	Index No.	CAS No.	EC No.	REACH Number	CAS Symbols/Risk phrases
Oxyde De Dimethyle	50 – 100	603-019-00-8	115-10-6	204-065-8	01-2119472128-37	GHS02, GHS04, Dgr, Flam. Gas 1, H220, F+, R12
Acetone	10 – 25	606-001-00-8	67-64-1	200-662-2	01-2119471330-49	GHS02, GHS07, Dgr, Flam. Liq 2, H225, Eye Irrit. 2, H319, STOT SE 3, H336, EUH:066, Xi,F, Xi:R36, F;R11, R66-R67

### 4. FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

#### 4.1 Description of first aid measures

<b>Inhalation</b>	In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest. If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary. If breathing is irregular or has stopped, affect mouth-to-mouth resuscitation and call a doctor. If a large quantity in inhaled, move the patient into the fresh air and keep him / her warm and still.
<b>Eye contact</b>	Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.
<b>Skin contact</b>	Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner. Watch out for any remaining product between skin and clothing, watches, shoes, etc. If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.
<b>Ingestion</b>	In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Keep the person exposed at rest. Do not force vomiting. Seek medical attention, showing the label. If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

### 5. FIRE FIGHTING MEASURES

<b>General</b>	Chemical powders, carbon dioxide and other extinguishing gas are suitable for small _res.
<b>5.1 Extinguishing media</b>	Keep packages near the _re cool, to prevent pressurised containers from bursting.
Suitable methods of extinction	In the event of a _re, use : <ul style="list-style-type: none"> <li>- sprayed water or water mist</li> <li>- water with AFFF (Aqueous Film Forming Foam) additive</li> <li>- halon</li> <li>- foam</li> <li>- multipurpose ABC powder</li> <li>- BC powder</li> <li>- carbon dioxide (CO2)</li> </ul> Prevent the effluent of fire-fighting measures from entering drains or waterways.
Unsuitable methods of extinction	In the event of a fire, do not use : <ul style="list-style-type: none"> <li>- water jet</li> </ul>
<b>5.2. Special hazards arising from the substance or mixture</b>	A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health. Do not breathe in smoke. In the event of a fire, the following may be formed : <ul style="list-style-type: none"> <li>- carbon monoxide (CO)</li> <li>- carbon dioxide (CO2)</li> </ul>
<b>5.3. Advice for firefighters</b>	Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

For non fire-fighters

Consult the safety measures listed under headings 7 and 8.

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area. Avoid inhaling the vapours. Avoid any contact with the skin and eyes. If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal. Prevent any material from entering drains or waterways.

### 6.3. Methods & material for containment & cleaning up

Clean preferably with a detergent, do not use solvents.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Fire prevention

Always wash hands after handling. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas. Do not breathe vapours. Handle in well-ventilated areas. Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air. Prevent the formation of flammable or explosive concentrations in air and avoid vapour concentrations higher than the occupational exposure limits. Do not spray on a naked flame or any incandescent material. Do not pierce or burn, even after use. Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected. Keep packages tightly closed and away from sources of heat, sparks and naked flames. Do not use tools which may produce sparks. Do not smoke. Prevent access by unauthorised personnel.

Recommended equipment and procedures

For personal protection, see section 8. Observe precautions stated on label and also industrial safety regulations. Do not breathe in aerosols. Avoid inhaling vapours. Carry out any industrial operation which may give rise to this in a sealed apparatus. Provide vapour extraction at the emission source and also general ventilation of the premises. Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions. In all cases, recover emissions at source. Avoid skin and eye contact with this mixture. Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures

No smoking, eating or drinking in areas where the mixture is used. Do not pierce or burn even after use.

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

Keep out of reach of children. Keep the container tightly closed in a dry, well-ventilated place. Keep away from all sources of ignition - do not smoke. Keep well away from all sources of ignition, heat and direct sunlight. The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. It's to recommend to indicate the stock of spray. Sprays must be surrounded by a metal grating or by wall to avoid the projections of sprays. Store between +5°C and +30°C. Always keep in packaging made of an identical material to the original.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

Occupational exposure limit values.

European Union (2009/161/UE, 2006/15/CE, 2000/39/CE, 98/24/CE)

CAS	VME-mg/m <sup>3</sup>	VME-ppm
115-10-6	1920	1000
67-64-1	1210	500

ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010)

CAS	TWA	STEL
67-64-1	500 ppm	750 ppm

Germany - AGW (BAuA - TRGS 900, 21/06/2010)

CAS	VME	VME/	Excess	Notes
115-10-6	1000 ml/m <sup>3</sup>	1900mg/m <sup>3</sup>	8(II)	DFG
67-64-1	500 ml/m <sup>3</sup>	1200mg/m <sup>3</sup>	2(I)	DFG

**France (INRS - ED984 :2008**

CAS	VME-ppm	VME-mg/m3	VLE-ppm	VLE-mg/m3
115-10-6	1000	1920		
67-64-1	500	1210	1000	2420

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

Substance	Final use	Exposure Method	DNEL	Effects
Acetone	Workers	Dermal	186 mg/kg body weight/day	Long term systemic effects.
	Workers	Inhalation	1210 mg of substance/m3	Long term systemic effects.
	Workers	Inhalation	2420 mg of substance/m3	Short term local effects.
	Consumers	Inhalation	62 mg/kg body weight/day	Long term systemic effects.
	Consumers	Dermal	62 mg/kg body weight/day	Long term systemic effects.
	Consumers	Inhalation	200 mg of substance/m3	Long term systemic effects.

**Predicted No Effect Concentration (PNEC)**

Ingredient name	Compartment Detail	Value
Acetone	Soil	29.5 mg/kg
	Fresh water	10.6 mg/l
	Marine water	1.06 mg/l
	Intermittent releases	21 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water predators (oral)	3.04 mg/kg
	Salt water predators (oral)	30.4 mg/kg

**8.2 Exposure controls**

Personal protection measures, such as personal protective equipment



Use personal protective equipment that is clean and has been properly maintained. Store personal protective equipment in a clean place, away from the work area. Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**Eye / face protection**

Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes. Before handling, wear safety goggles with protective sides accordance with standard EN166. In the event of high danger, protect the face with a face shield. Prescription glasses are not considered as protection. Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours. Provide eyewash stations in facilities where the product is handled constantly.

**Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374. Gloves must be selected according to the application and duration of use at the workstation. Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required. Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

Recommended properties :

- Impervious gloves in accordance with standard EN374

**Body protection**

Avoid skin contact. Wear suitable protective clothing. Suitable type of protective clothing : In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact. In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

**Respiratory protection**

Avoid breathing vapours. If the ventilation is insufficient, wear appropriate breathing apparatus. When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149.

Category :

- FFP1 Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :
- A1 (Brown) Particle filter according to standard EN143 :
- P1 (White)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Physical state</b>	Fluid liquid. Spray.
<b>Spray</b>	Spray : Pressure to 20°C : 4.0 bars ± 1 bar
<b>Booster</b>	Colourless liquid propellant / exposed characteristics (%vol) : 1.1 - 9.5
<b>Vapour pressure (50°C)</b>	Below 110 kPa (1.10 bar).
<b>Density</b>	<1
<b>Water solubility</b>	Insoluble.
<b>Chemical combustion heat</b>	>= 30 kJ/g

## 10. STABILITY AND REACTIVITY

<b>10.1. Reactivity</b>	No data available
<b>10.2. Chemical stability</b>	This mixture is stable under the recommended handling and storage conditions in section 7. Avoid storing more than 2 years
<b>10.3. Possibility of hazardous reactions</b>	When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.
<b>10.4. Conditions to avoid</b>	Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises. Avoid : - heating - heat Keep away from oxidizing agent, acids or base.
<b>10.5. Incompatible materials</b>	No data available
<b>10.6. Hazardous decomposition products</b>	The thermal decomposition may release/form : - carbon monoxide (CO) - carbon dioxide (CO <sub>2</sub> )

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin. May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days. Splashes in the eyes may cause irritation and reversible damage. Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness. Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance

<b>11.1.1. Substance</b>	No toxicological data available for the substances.
<b>11.1.2. Mixture</b>	
<b>Skin corrosion/skin irritation</b>	Repeated exposure may cause skin dryness or cracking.
<b>Serious damage to eyes/eye irritation</b>	May cause eye irritation.
<b>Respiratory or skin sensitisation</b>	May cause drowsiness and dizziness

## 12. ECOLOGICAL INFORMATION

<b>12.1. Toxicity</b>	Probably harmful to aquatic organisms.
12.1.2. Mixtures	No aquatic toxicity data available for the mixture
<b>12.6. Other adverse effects</b>	No data available.
<b>German regulations concerning the classification of hazards for water (WGK):</b>	
WGK 1 (VwVwS vom 27/07/2005, KBws): Slightly hazardous for water.	

## 13. DISPOSAL CONSIDERATIONS

<b>13.1. Waste treatment methods</b>	Do not pour into drains or waterways.
<b>Waste</b>	Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company. Do not contaminate the ground or water with waste; do not dispose of waste into the environment.
<b>Soiled packaging</b>	Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

## 14. TRANSPORT INFORMATION

<b>14.1. UN number</b>	1950
<b>14.2. UN proper shipping name</b>	UN1950=AEROSOLS, flammable
<b>14.3. Transport hazard class(es) Classification</b>	



2.1

<b>14.4. Packing group</b>	
<b>14.5. Environmental hazards</b>	
<b>14.6. Special precautions for user</b>	
<b>ADR/RID</b>	

<b>Class</b>	2
<b>Code</b>	5F
<b>Label</b>	2.1
<b>LQ</b>	1L
<b>Provis.</b>	190 327 344 625
<b>EQ</b>	E0
<b>Cat.</b>	2
<b>Tunnel</b>	D

**IMDG**

<b>Class</b>	2.1
<b>2<sup>nd</sup> Label</b>	203
<b>LQ</b>	SP277
<b>EMS</b>	F-D, S-U
<b>Provis.</b>	63 190 277 327 959
<b>EQ</b>	E0

**IATA**

<b>Class</b>	2.1
<b>Passenger</b>	203 / Y203
<b>Passenger</b>	75kg / 30kg G
<b>Cargo</b>	203
<b>Cargo</b>	150kg
<b>Note</b>	A145, A167, A145, A802
<b>EQ</b>	E0

<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No data available.
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## 15. REGULATORY INFORMATION

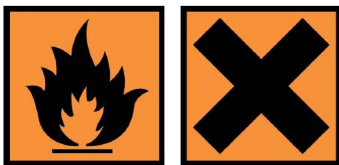
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
<b>Regulations</b>	The following regulations have been used:

- Directive 67/548/EEC and its adaptations
- Directive 1999/45/EC and its adaptations
- Directive 2008/47/EC
- Regulation EC 1272/2008 modified by regulation EC 286/2011
- Germany : WGK 1 (VwVwS vom 27/07/2005, KBws)

## 16. OTHER INFORMATION

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols



**Text of risk phrases**

R 36 Irritating to eyes.  
 R 12 Extremely flammable.  
 R 66 Repeated exposure may cause skin dryness or cracking.  
 R 67 Vapours may cause drowsiness and dizziness.

**Text of Safety phrase**

S 16 Keep away from sources of ignition - No smoking.  
 S 2 Keep out of the reach of children.  
 S 23 Do not breathe spray  
 S 46 If swallowed seek medical advice immediately and show this container or label. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.  
 S 51 Use only in well-ventilated areas.

**Title for H, EUH and R**

H220 Extremely flammable gas.  
 H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 EUH066 Repeated exposure may cause skin dryness or cracking.  
 R11 Highly flammable.  
 R12 Extremely flammable.  
 R36 Irritating to eyes.  
 R66 Repeated exposure may cause skin dryness or cracking.  
 R67 Vapours may cause drowsiness and dizziness.

**Further information**

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This 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.