

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



## AeroGlu Permanent

Version No.1

Revision Date:  
08/04/2010

Page 1 of 6

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

Trade Name	AeroGlu Permanent Spray Adhesive
Use of the substance / preparation	Permanent Spray Adhesive
Manufacturer / Supplier	Fantastak Limited Hillside House, Stewart Close Bradford, West Yorkshire, BD2 2EE United Kingdom
Contact Details	Tel: + 44 (0)1274 466 666 Fax: + 44 (0)1274 466 664 E-mail: <a href="mailto:paulsimpson@fantastak.com">paulsimpson@fantastak.com</a>
Emergency Phone Number (UK Office Hours Only: 9am to 5pm)	Tel: + 44 (0)1274 466 666

### 2. HAZARDS IDENTIFICATION

This is a hazardous preparation with following risks: Extremely flammable. Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation	Solvent Adhesive in a hydrocarbon solvent																				
Hazardous ingredients	<table border="1"><thead><tr><th>NAME</th><th>EC NO.</th><th>CAS-NO</th><th>CONTENT %</th><th>CLASSIFICATION</th></tr></thead><tbody><tr><td>Isopropanol</td><td>200-661-7</td><td>67-63-0</td><td>0,5 - 2,5</td><td>F, Xi 11-36-67</td></tr><tr><td>Naphta light</td><td>265-151-9</td><td>64742-49-0</td><td>10 - 25</td><td>Xn, N, F, 11-38-65-67-51/53</td></tr><tr><td>Dimethoxymethane</td><td>203-714-2</td><td>109-87-5</td><td>25 - 50</td><td>F, 11</td></tr></tbody></table>	NAME	EC NO.	CAS-NO	CONTENT %	CLASSIFICATION	Isopropanol	200-661-7	67-63-0	0,5 - 2,5	F, Xi 11-36-67	Naphta light	265-151-9	64742-49-0	10 - 25	Xn, N, F, 11-38-65-67-51/53	Dimethoxymethane	203-714-2	109-87-5	25 - 50	F, 11
NAME	EC NO.	CAS-NO	CONTENT %	CLASSIFICATION																	
Isopropanol	200-661-7	67-63-0	0,5 - 2,5	F, Xi 11-36-67																	
Naphta light	265-151-9	64742-49-0	10 - 25	Xn, N, F, 11-38-65-67-51/53																	
Dimethoxymethane	203-714-2	109-87-5	25 - 50	F, 11																	

### 4. FIRST AID MEASURES

Eye contact	Rinse for a prolonged period with water (contact lenses to be removed if this is easily done) then take to physician
Skin contact	Rinse first with plenty of water and seek medical attention if required.
Inhalation	In case of serious or continuous discomforts: remove to fresh air and seek medical attention
Ingestion	DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Rinse mouth with water. Call an ambulance and take these instructions.

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



## AeroGlu Permanent

Version No.1

Revision Date:

08/04/2010

Page 2 of 6

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	CO2, foam, powder, water Spray
Unsuitable extinguishing media	None
Special protective equipment / procedures	Self contained breathing apparatus and full protective clothing must be worn in case of fire

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Do not eat, drink or smoke whilst using the adhesive. Keep sealed containers away from children.
Precautions to protect the environment	Prevent material from entering surface waters, drains and soil.
Methods for cleaning up	Wear necessary protective equipment. Ventilate well. Avoid contact with skin or inhalation of spillage, dust or vapour. Collect with absorbent, non-combustible material into suitable containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Avoid water on spilled material or leaking containers. Do not contaminate water sources or sewer.

### 7. HANDLING AND STORAGE

Advice on safe handling	Keep in a sealed container in a closed, ventilated room, keep away from sources of ignition - no smoking.. Use approved respirator if air contamination is above accepted level.
Advice on storage	Keep container closed and store away from sources of ignition. Store below 25°C.
Unsuitable packaging materials	Keep separated from toxic or very toxic substances.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls for hazardous components	Name	Std	TLV Value
	Isopropanol 997 mg/m <sup>3</sup>	TLV	997 mg/m <sup>3</sup>
	Dimethoxymethane		3100 mg/m <sup>3</sup>
	Naphta light (low boiling point hydrogen treated)		903 mg/m <sup>3</sup>

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



# FANTASTAK

ADHESIVE INNOVATION

## AeroGlu Permanent

Version No.1

Revision Date:

08/04/2010

Page 3 of 6

### Personal protective equipment

Respiratory protection	If ventilation is insufficient, suitable respiratory protection must be provided.
Hand protection	Protective gloves should be used if there is a risk of direct contact skin.
Eye protection	Avoid contact with eyes. Wear approved safety goggles.
Skin protection	None required
Hygiene measures	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
Environmental exposure controls	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Fine Sticky liquid
Odour	Characteristic
Melting point/melting range, °C	<-20 (°C)
Flash Point	-18 (°C)
Boiling point/Boiling range (°C)	41,5 - 140
Auto Ignition Temperature (°C)	230 (°C)
Water solubility	Insoluble
Vapour pressure/20°C, Pa	853000
Volatile organic component (VOC), %	67%

The above information is not intended for use in preparing product specifications.

## 10. STABILITY AND REACTIVITY

General information	No particular stability concerns.
Conditions to avoid	Avoid excessive heat for prolonged periods of time, keep away from sources of ignition
Materials to avoid	Keep away from sources of ignition

## 11. TOXICOLOGICAL INFORMATION

Calculated acute toxicity	LD50 Oral Rat: 2931 mg/kg
Other health hazard information	See section 3. The substance itself not applicable under actual EEC guidelines

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation

# FANTASTAK

ADHESIVE INNOVATION

## AeroGlu Permanent

Version No.1

Revision Date:

08/04/2010

Page 4 of 6

for preparations

### 12. ECOLOGICAL INFORMATION

Environmental fate and distribution

see ingredients under section 3

Water hazard class

WGK: 1

### 13. DISPOSAL CONSIDERATIONS

Product disposal

Dispose of in accordance with local regulations. Do not empty product into drains.

### 14. TRANSPORT INFORMATION

Road / Rail (ADR/RID)

5F

Identification number of the substance

UN 1950, Aerosols, flammable, , (D)

Labels



2.1

### 15. REGULATORY INFORMATION

Labelling according to EEC directive

Nature of hazard

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. Do not smoke.

Hazard symbols



Extremely flammable

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation

# FANTASTAK

ADHESIVE INNOVATION

## AeroGlu Permanent

Version No.1

Revision Date:  
08/04/2010

Page 5 of 6



Irritant

R-phrases

R12 Extremely flammable.  
R36 Irritating to eyes.  
R52/53 Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.  
R67 Vapours may cause drowsiness and dizziness

S-phrases

S2 Keep out of reach of children.  
S3 Keep in a cool place.  
S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe spray.  
S29 Do not empty into drains.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S51 Use only in well ventilated areas.

## 16. OTHER INFORMATION

This Product Safety Data Sheet was prepared in compliance with article 31 and Annex II of the EU REACH regulation as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

This product should only be used as stated in Fantastak Limited literature. It is the responsibility of the persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of or in any way come in to contact with the product. If the recipient subsequently produces a formulation containing the Fantastak Limited product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the on Fantastak Limited Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH regulation.

R-Phrases, mentioned in point 3, not of application on the preparation.

**Risks connected to the preparation and its hazardous components:** R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R38 Irritating to skin. R51 Toxic to aquatic organisms. R52 Harmful to aquatic organisms. R53 May cause longterm adverse effects in the aquatic environment. R65 Harmful: may cause lung damage if swallowed R67 Vapours may cause drowsiness and dizziness

**Reason of revision, changes of following items:** 9, 16

**Composition by regulation (EC) No 648/2004:** Aliphatic hydrocarbons >30%

This safety information sheet has been compiled in accordance with annex II of the REACH-directive EG 1907/2006. Classification has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care, we cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. It is the responsibility of the user to take the necessary measures in order to comply with the local laws and regulations. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.

This safety information sheet has been compiled in accordance with annex II of the REACH-directive EG 1907/2006. Classification

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



## AeroGlu Permanent

Version No.1

Revision Date:

08/04/2010

Page 6 of 6

has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and regulation 1272/2008 with their Respective amendments. It has been compiled with the utmost care, we cannot, however, accept responsibility for damage, of any Kind, that may be caused by using these data or the product concerned. It is the responsibility of the user to take the necessary Measures in order to comply with the local laws and regulations. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself. All information and instructions provided in the Product Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on the present Product Safety Data Sheet. Fantastak Limited shall not be held responsible for any defect in the product covered by this Product Safety Data Sheet, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



ADHESIVE INNOVATION

## AeroGlu Repositionable

Version No.1

Revision Date:

08/04/2010

Page 1 of 6

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

Trade Name	AeroGlu Repositionable Spray Adhesive
Use of the substance / preparation	Repositionable Spray Adhesive
Manufacturer / Supplier	Fantastak Limited Hillside House, Stewart Close Bradford, West Yorkshire, BD2 2EE United Kingdom
Contact Details	Tel: + 44 (0)1274 466 666 Fax: + 44 (0)1274 466 664 E-mail: <a href="mailto:paulsimpson@fantastak.com">paulsimpson@fantastak.com</a>
Emergency Phone Number (UK Office Hours Only: 9am to 5pm)	Tel: + 44 (0)1274 466 666

### 2. HAZARDS IDENTIFICATION

This is a hazardous preparation with following risks: Extremely flammable. Irritating to eyes. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Vapours may cause drowsiness and dizziness

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterisation	Solvent Adhesive in a hydrocarbon solvent																		
Hazardous ingredients	<table border="1"><thead><tr><th>NAME</th><th>EC NO.</th><th>CAS-NO</th><th>CONTENT %</th><th>CLASSIFICATION</th></tr></thead><tbody><tr><td>Acetone</td><td>200-662-2</td><td>67-64-1</td><td>25 - 50</td><td>F, Xi 11-36-66-67</td></tr><tr><td>Cycloperntane</td><td>206-016-6</td><td>287-92-3</td><td>25 - 50</td><td>F 11-52/53-67</td></tr></tbody></table>				NAME	EC NO.	CAS-NO	CONTENT %	CLASSIFICATION	Acetone	200-662-2	67-64-1	25 - 50	F, Xi 11-36-66-67	Cycloperntane	206-016-6	287-92-3	25 - 50	F 11-52/53-67
NAME	EC NO.	CAS-NO	CONTENT %	CLASSIFICATION															
Acetone	200-662-2	67-64-1	25 - 50	F, Xi 11-36-66-67															
Cycloperntane	206-016-6	287-92-3	25 - 50	F 11-52/53-67															

### 4. FIRST AID MEASURES

Eye contact	Rinse for a prolonged period with water (contact lenses to be removed if this is easily done) then take to physician
Skin contact	Rinse first with plenty of water and seek medical attention if required.
Inhalation	In case of serious or continuous discomforts: remove to fresh air and seek medical attention
Ingestion	DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS. Rinse mouth with water. Call an ambulance and take these instructions.

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



**A D H E S I V E I N N O V A T I O N**

## AeroGlu Repositionable

Version No.1

Revision Date:

08/04/2010

Page 2 of 6

### 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	CO2, foam, powder, water Spray
Unsuitable extinguishing media	None
Special protective equipment / procedures	Self contained breathing apparatus and full protective clothing must be worn in case of fire

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Do not eat, drink or smoke whilst using the adhesive. Keep sealed containers away from children.
Precautions to protect the environment	Prevent material from entering surface waters, drains and soil.
Methods for cleaning up	Wear necessary protective equipment. Ventilate well. Avoid contact with skin or inhalation of spillage, dust or vapour. Collect with absorbent, non-combustible material into suitable containers. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Avoid water on spilled material or leaking containers. Do not contaminate water sources or sewer.

### 7. HANDLING AND STORAGE

Advice on safe handling	Keep in a sealed container in a closed, ventilated room, keep away from sources of ignition - no smoking.. Use approved respirator if air contamination is above accepted level.
Advice on storage	Keep container closed and store away from sources of ignition. Store below 25°C.
Unsuitable packaging materials	Keep separated from toxic or very toxic substances.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls for hazardous components	Name		TLV Value
	Acetone		1210 mg/m <sup>3</sup>
	Cycloperntane		1745 mg/m <sup>3</sup>



# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



## AeroGlu Repositionable

Version No.1

Revision Date:

08/04/2010

Page 3 of 6

### Personal protective equipment

Respiratory protection	If ventilation is insufficient, suitable respiratory protection must be provided.
Hand protection	Protective gloves should be used if there is a risk of direct contact skin.
Eye protection	Avoid contact with eyes. Wear approved safety goggles.
Skin protection	None required
Hygiene measures	Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
Environmental exposure controls	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Fine Sticky liquid
Odour	Characteristic
Melting point/melting range, °C	<-20 (°C)
Flash Point	<0 (°C)
Boiling point/Boiling range (°C)	56,5 °C
Auto Ignition Temperature (°C)	200 (°C)
Water solubility	Insoluble
Vapour pressure/20°C, Pa	533320
Volatile organic component (VOC), %	95

The above information is not intended for use in preparing product specifications.

## 10. STABILITY AND REACTIVITY

General information	No particular stability concerns.
Conditions to avoid	Avoid excessive heat for prolonged periods of time, keep away from sources of ignition
Materials to avoid	Keep away from sources of ignition

## 11. TOXICOLOGICAL INFORMATION

Calculated acute toxicity	LD50 Oral Rat: 388 mg/kg
Other health hazard information	See section 3. The substance itself not applicable under actual EEC guidelines

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation

# FANTASTAK

ADHESIVE INNOVATION

## AeroGlu Repositionable

Version No.1

Revision Date:

08/04/2010

Page 4 of 6

for preparations

### 12. ECOLOGICAL INFORMATION

Environmental fate and distribution

see ingredients under section 3

Water hazard class

WGK: 1

### 13. DISPOSAL CONSIDERATIONS

Product disposal

Dispose of in accordance with local regulations. Do not empty product into drains.

### 14. TRANSPORT INFORMATION

Road / Rail (ADR/RID)

5F

Identification number of the substance

UN 1950, Aerosols, flammable, , (D)

Labels



2.1

### 15. REGULATORY INFORMATION

Labelling according to EEC directive

Nature of hazard

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. Do not smoke.

Hazard symbols



Extremely flammable

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



ADHESIVE INNOVATION

## AeroGlu Repositionable

Version No.1

Revision Date:

08/04/2010

Page 5 of 6



Irritant

R-phrases

R12 Extremely flammable.  
R36 Irritating to eyes.  
R52/53 Harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment.  
R67 Vapours may cause drowsiness and dizziness

S-phrases

S2 Keep out of reach of children.  
S3 Keep in a cool place.  
S16 Keep away from sources of ignition - No smoking.  
S23 Do not breathe spray.  
S29 Do not empty into drains.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S51 Use only in well ventilated areas.

## 16. OTHER INFORMATION

This Product Safety Data Sheet was prepared in compliance with article 31 and Annex II of the EU REACH regulation as well as their relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

This product should only be used as stated in Fantastak Limited literature. It is the responsibility of the persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose of or in any way come in to contact with the product. If the recipient subsequently produces a formulation containing the Fantastak Limited product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the on Fantastak Limited Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH regulation.

R-Phrases, mentioned in point 3, not of application on the preparation. Risks connected to the preparation and its hazardous components: R11 Highly flammable. R12 Extremely flammable. R36 Irritating to eyes. R52 Harmful to aquatic organisms. R53 May cause long-term adverse effects in the aquatic environment. R66 Repeated exposure may cause skin dryness or cracking R67 Vapours may cause drowsiness and dizziness. Reason of revision, changes of following items: 14, 15, 16

Composition by regulation (EC) No 648/2004: Aliphatic hydrocarbons 15 < 30%

This safety information sheet has been compiled in accordance with annex II of the REACH-directive EG 1907/2006. Classification has been calculated in accordance with the European directive 67/548/EWG, 1999/45/EC and regulation 1272/2008 with their Respective amendments. It has been compiled with the utmost care, we cannot, however, accept responsibility for damage, of any Kind, that may be caused by using these data or the product concerned. It is the responsibility of the user to take the necessary

# PRODUCT SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH

Regulation



## AeroGlu Repositionable

Version No.1

Revision Date:

08/04/2010

Page 6 of 6

Measures in order to comply with the local laws and regulations. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself. All information and instructions provided in the Product Safety Data Sheet are based on the current state of scientific and technical knowledge at the date indicated on the present Product Safety Data Sheet. Fantastak Limited shall not be held responsible for any defect in the product covered by this Product Safety Data Sheet, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.