MATERIAL SAFETY DATA SHEET

1) Identification of the substance/Preparation and Company

Product Name **Aquafix Adhesive**
Use: Adhesive

Supplier: EnviroStik Ltd,
Airfield Industrial Estate
Hixon
Stafford
ST18 OPF
England
Tel: (01889) 271751

2) Hazards Identification

2.1. Classification of the substance or mixture
Classification under CHIP: Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20; -: R52/53
Classification under CLP: Carc. 2: H351; STOT RE 2: H373; Acute Tox. 4: H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335; Skin Sens. 1: H317; Resp. Sens. 1: H334
Most important adverse effects: Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements
Label elements under CLP:

Hazard statements: H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer .
H373: May cause damage to organs . through prolonged or repeated exposure through prolonged or repeated inhalative exposure.

Signal words: Danger

Hazard pictograms: GHS07: Exclamation mark GHS08: Health hazard

Precautionary statements: P280: Wear protective gloves/protective clothing/eye protection/face protection.
P285: In case of inadequate ventilation wear respiratory protection.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+233: Store in a well-ventilated place. Keep container tightly closed.
P501: Dispose of contents/container to to hazardous or special waste waste collection point.

Label elements under CHIP:

Hazard symbols: Harmful. 

Risk phrases: R20: Harmful by inhalation.
R36/37/38: Irritating to eyes, respiratory system and skin.
R40: Limited evidence of a carcinogenic effect.
R42/43: May cause sensitisation by inhalation and skin contact.
R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S23: Do not breathe vapour.
S38: In case of insufficient ventilation, wear suitable respiratory equipment.
S36/37: Wear suitable protective clothing and gloves.
S24/25: Avoid contact with skin and eyes.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest.

Precautionary phrases: Contains isocyanates. See information supplied by the manufacturer.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

---

3) Composition/Information on Ingredients

3.2. Mixtures

Hazardous ingredients:
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
EINECS 202-966-0
CAS 101-68-8
CHIP Classification Xn: R40; Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43
CLP Classification - Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335
Percent 30-60%

TRIPHENYL PHOSPHITE
EINECS 202-908-4
CAS 101-02-0
CHIP Classification Xi: R36/38; N: R50/53
CLP Classification - Eye Irrit. 2: H319; Skin Irrit. 2: H315; Aquatic Chronic 1: H410; Aquatic Acute 1: H400

Percent 1-5%

---

4) First Aid Measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
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.

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

Skin contact: There may be irritation and redness at the site of contact. Onset of symptoms may be delayed.
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. Onset of symptoms may be delayed.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

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

5) Fire Fighting Measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

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.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): adhesive

8) Exposure Controls/Personal Protection

8.1. Control parameters

Workplace exposure limits:
8 hour TWA 0.02mg/m3
15 min. STEL 0.07mg/m3

Hazardous ingredients:

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE
Workplace exposure limits:
8 hour TWA 0.02mg/m3
15 min. STEL 0.07mg/m3

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
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, the user must COSHH risk assess to determine the correct glove.
Eye protection: Safety glasses. Ensure eye bath is to hand.
Skin protection: Protective clothing.

9) Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State: Liquid
Colour: Green
Odour: Characteristic odour
Evaporation rate: Slow
Oxidising: Non-oxidising (by EC criteria)
Solubility in water: Reacts with water.
Viscosity: Viscous
Flash point°C: >93
Autoflammability°C: >600
Vapour pressure: 0.01Pa
Relative density: 1.23

9.2. Other information

Not applicable

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.

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.

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.

---

11) Toxicological Information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	>10000	mg/kg
DERMAL	RBT	LD50	>9400	mg/kg

Relevant effects for mixture:

Effect	**Route**	**Basis**
Acute toxicity (harmful)	INH	Hazardous: calculated
Irritation	OPT INH DRM	Hazardous: calculated
Sensitisation	INH DRM	Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. Onset of symptoms may be delayed

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. Onset of symptoms may be delayed.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

---

12) Ecological Information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
Aquatic plants	72H EC50	1640	mg/l
Daphnia magna	24H EC50	>1000	mg/l
Sludge	3H EC50	>100	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	>1000	mg/l

12.2. Persistence and degradability

Persistence and degradability: Biodegradable in part only.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

13) Waste Disposal

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised 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.

14) Transport Information

Transport class: This product does not require a classification for transport.

15) Regulatory Information

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

Specific regulations: This product is classifed as a mixture. CLP classification for information only. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

16) Other Information

Other information

Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010, using the current safety information supplied by the distributors of the component materials. This leaflet may contain inappropriate information under particular conditions of use.

Phrases used in s.2 and 3:

H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
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.
R20: Harmful by inhalation.
R36/37/38: Irritating to eyes, respiratory system and skin.
R36/38: Irritating to eyes and skin.
R40: Limited evidence of a carcinogenic effect.
R42/43: May cause sensitisation by inhalation and 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.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer:

This product is for professional use only and should be used as directed by EnviroStik Ltd. For further information consult the application data sheet.
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The company shall not be held liable for any damage resulting from handling or from contact with the above product.