

MATERIAL SAFETY DATA SHEET

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product Name: Sport-Fix Aquabond Adhesive

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

Use of substance / mixture: PC1 Adhesive.

1.3. Details of the supplier of the safety data sheet

Company name: EnviroStik Holdings (UK) Ltd,
Airfield Industrial Estate
Hixon
Stafford
ST18 OPF
England

Tel: (01889) 271751

1.4. Emergency telephone number

Emergency tel: (01889) 271751

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373

Environmental hazards Not Classified

Classification (67/548/EEC or 1999/45/EC) Xn;R20,R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38.

Human health May cause sensitisation by inhalation.

Physicochemical Vapours are heavier than air and may travel along the floor and accumulate in the bottom of containers.

2.2. Label elements

Pictogram



Signal word Danger

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.

Precautionary statements

EUH204 Contains isocyanates. May produce an allergic reaction.
P260 Do not breathe vapour/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with national regulations.
RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.
RCH004c 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.

Contains DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Supplementary precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the

workplace.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P313 Get medical advice/attention.
 P314 Get medical advice/attention if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337 If eye irritation persists:
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
 P362 Take off contaminated clothing.
 P363 Wash contaminated clothing before reuse.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB

Section 3: Composition/information on ingredients

3.2. Mixtures

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)		30-60%
CAS number: 32055-14-4		REACH registration number: 01-2119457024-46-0006
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H332	Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.	
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Resp. Sens. 1 - H334		
Skin Sens. 1 - H317		
Carc. 2 - H351		
STOT SE 3 - H335		
STOT RE 2 - H373		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Section 4: First aid measures

4.1. Description of first aid measures

- General Information:** Remove affected person from source of contamination.
- Inhalation:** Move affected person to fresh air at once. Get medical attention if any discomfort continues.
- Ingestion:** Do not induce vomiting. Get medical attention immediately.
- Skin Contact:** Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
- Eye Contact:** Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.
- Protection of first aiders:** First aid personnel should wear appropriate protective equipment during any rescue
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4.2. Most important symptoms and effects, both acute and delayed

- General information:** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
- Inhalation:** Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
- Ingestion:** May cause discomfort if swallowed
- Skin Contact:** Prolonged skin contact may cause redness and irritation.
- Eye Contact:** Severe irritation, burning and tearing.
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4.3. Indication of any immediate medical attention and special treatment needed

- Notes for the doctor:** No specific recommendations. If in doubt, get medical attention promptly.
- Specific treatments:** Treat symptomatically.
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Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: The product is non-combustible. Irritating gases or vapours. Not known.

Hazardous combustion products:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3. Advice for fire-fighters

Protective actions during firefighting:

Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.

Special protective equipment for firefighters:

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Clean up Procedures: Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS for personal protection details.

Section 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions: Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying is permitted only in closed systems, spray cabinets or spray boxes with adequate ventilation.

Advice on general occupational hygiene:

Wash promptly with soap and water if skin becomes contaminated. Preventive industrial medical examinations should be carried out.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions: Store in closed original container at temperatures between 5°C and 25°C.

Storage class: Chemical storage.

7.3. Specific end use(s)

Specific end use(s): The identified uses for this product are detailed in Section 1.2.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Long-term exposure limit (8-hour TWA): WEL 0.07 mg/m³
Short-term exposure limit (15-minute): WEL 0.02 mg/m³

Ingredient comments WEL = Workplace Exposure Limits

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES) (CAS: 32055-14-4)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Workers - Dermal; Short term systemic effects: 50 mg/kg
Workers - Inhalation; Short term systemic effects: 0.1 mg/m³
Workers - Dermal; Short term local effects: 28.7 mg/cm²
Workers - Inhalation; Short term local effects: 0.1 mg/m³
Workers - Inhalation; Long term systemic effects: 0.05 mg/m³
Workers - Inhalation; Long term local effects: 0.05 mg/m³
General population - Dermal; Short term systemic effects: 25 mg/kg
General population - Inhalation; Short term systemic effects: 0.05 mg/m³
General population - Oral; Short term systemic effects: 20 mg/kg
General population - Dermal; Short term local effects: 17.2 mg/cm²
General population - Inhalation; Short term local effects: 0.05 mg/m³
General population - Inhalation; Long term systemic effects: 0.025 mg/m³
General population - Inhalation; Long term local effects: 0.025 mg/m³

PNEC - Fresh water; 1 mg/l
- Marine water; 0.1 mg/l
- Soil; 1 mg/kg dry weight
- STP; 1 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls:

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection: Wear chemical splash goggles.

Hand protection:

It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Neoprene.

Other skin and body protection:

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

Hygiene measures:

Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling. When using do not eat, drink or smoke.

Respiratory protection:

If ventilation is inadequate, suitable respiratory protection must be worn. If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

Environmental exposure controls:

Keep container tightly sealed when not in use.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Green
Odour:	Characteristic
Odour threshold:	Not available
pH:	Estimated value. pH (concentrated solution): 7-8
Melting Point C:	<10
Initial Boiling Point/Range C:	330
Flash Point C:	>200
Evaporation rate:	slow
Evaporation factor:	Not available
Flammability:	Not available
Upper/lower flammability or explosive limits:	Estimated value. : 0.6% - 11.5%
Other flammability:	Not available
Vapour pressure:	0.01 Pa @ °C
Vapour density:	8,5
Relative Density:	1.12
Bulk Density:	Not available
Solubility(ies):	Insoluble in water. Hardens on contact with water.
Partition coefficient:	Not available.
Auto-ignition temperature:	>600°C
Decomposition Temperature:	Not available.
Viscosity:	>2000 cP @ 25°C
Explosive properties:	Not available
Explosive under the influence of a flame:	Not considered to be explosive.
Oxidising properties:	Not available.
Comments:	Information given is applicable to the product as supplied.

9.2. Other information

Other information: No information required.

Refractive index: Not available.
Particle size: Not available.
Molecular weight: Not available.
Volatility: Not available.
Saturation concentration: Not available.
Critical temperature: Not available.
Volatile organic compound: No information available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: The product will harden into a solid mass in contact with water and moisture.

10.2. Chemical stability

Chemical stability: Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Hazardous reactions: Not applicable. May polymerise.

10.4. Conditions to avoid

Conditions to avoid: Avoid contact with water.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products:

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: No information available.

Other health effects: There is no evidence that the product can cause cancer.

Acute toxicity - inhalation

ATE inhalation (vapours mg/l): 30.56

ATE inhalation (dusts/mists mg/l) 4.17

Skin corrosion/irritation - Animal data: Irritating

Serious eye damage/irritation: Moderately irritating.

Respiratory sensitisation: Sensitising
Skin sensitisation: Not determined
Carcinogenicity: Suspected carcinogen based on limited evidence.
Target organ for carcinogenicity: No specific target organs known.

Reproductive toxicity

Reproductive toxicity – fertility: Not available
Reproductive toxicity – development:
This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity (STOT) - repeated exposure:

Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

Aspiration hazard:

Not anticipated to present an aspiration hazard, based on chemical structure.

General information: No specific health hazards known.

Inhalation: Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion: May cause stomach pain or vomiting.

Skin contact: Irritating to skin. May cause sensitisation by skin contact.

Eye contact: Irritation of eyes and mucous membranes.

Acute and chronic health hazards: May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.

Route of entry: Inhalation Skin and/or eye contact

Medical symptoms: Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.

Medical considerations: Chronic respiratory and obstructive airway diseases.

Toxicological information on ingredients.

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg): 10,000.0
Species: Rat

ATE oral (mg/kg): 10,000.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg): 9,400
Species: Rabbit

ATE dermal (mg/kg): 9,400

Acute toxicity - inhalation

Acute toxicity inhalation (LC50 vapours mg/l): 0.493
Species: Rat

Acute toxicity inhalation (LC50 dust/mist mg/l): 0.31
Species: Rat

ATE inhalation (vapours mg/l): 11.0

ATE inhalation (dusts/mists mg/l): 1.5

Skin corrosion/irritation - Animal data: Irritating.

Serious eye damage/irritation: Moderately irritating.

Respiratory sensitisation: Sensitising

Skin sensitisation: Not determined

Carcinogenicity: Suspected carcinogen based on limited evidence.

Target organ for carcinogenicity: No specific target organs known.

Reproductive toxicity - development:

This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity (STOT) - repeated exposure:

Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

Aspiration hazard:

Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation: Irritating to respiratory system. May cause sensitisation by inhalation.

Ingestion: May cause stomach pain or vomiting.

Skin contact: Irritating to skin. May cause sensitisation by skin contact.

Eye contact: Irritation of eyes and mucous membranes.

Acute and chronic health hazards: May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.

Route of entry: Inhalation Skin and/or eye contact

Medical symptoms: Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.

Medical considerations: Chronic respiratory and obstructive airway diseases.

Section 12: Ecological information

Ecotoxicity: The product is not expected to be hazardous to the environment

Ecological information on ingredients.

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Ecotoxicity: The product is not expected to be hazardous to the environment

12.1. Toxicity

Acute toxicity - fish LC50, 96 hours, 96 hours: > 1000 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC50, 48 hours: >500 mg/l, Daphnia magna

Acute toxicity - aquatic plants. EC50, 72 hours, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus

Ecological information on ingredients

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Acute toxicity - fish LC50, 96 hours, 96 hours: > 1000 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC50, 48 hours: >500 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC50, 72 hours, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC50, 3 hours: 100 mg/l, Activated sludge

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 10 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability: The product is not readily biodegradable.

Stability (hydrolysis): Reacts with water
Biological oxygen demand: < 10 g O₂/g substance

Ecological information on ingredients.

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Persistence and degradability: The product is not readily biodegradable.

Stability (hydrolysis): Reacts with water
Biological oxygen demand: < 10 g O₂/g substance

12.3. Bioaccumulative potential

Bioaccumulative potential: The product does not contain any substances expected to be bioaccumulating.

Partition coefficient: Not available

Ecological information on ingredients.

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Bioaccumulative potential: The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility: The product is non-volatile.

Ecological information on ingredients.

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Mobility: The product is non-volatile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

DIPHENYLMETHANEDIISOCYANATE (MIXTURE OF ISOMERS AND HOMOLOGUES)

Results of PBT and vPvB assessment: This product does not contain any substances classified as PBT or vPvB

12.6. Other adverse effects

Other adverse effects: None known.

Section 13: Disposal considerations

13.1. Waste treatment methods

General information: Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority

Disposal methods: Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Section 14: Transport information

General: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

UN number: Not applicable

14.2. UN proper shipping name

Shipping name: Not applicable

14.3. Transport hazard class(es)

No transport warning sign required.

Transport labels: Not applicable

14.4. Packing group

Packing group: Not applicable

14.5. Environmental hazards

Environmentally hazardous / Marine pollutant: No

14.6. Special precautions for user:

Special precautions for user: Not applicable

Section 15: Regulatory information

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

- National regulations:** Health and Safety at Work etc. Act 1974 (as amended).
The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended).
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).
Control of Substances Hazardous to Health Regulations 2002 (as amended).
- EU legislation:** Commission Directive 91/322/EEC of 29 May 1991 on establishing indicative limit values by implementing Council Directive 80/1107/EEC on the protection of workers from the risks related to exposure to chemical, physical and biological agents at work.
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical Safety Assessment

Chemical safety assessment: No chemical safety assessment has been carried out.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

Section 16: Other information

Risk phrases in full: 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.

Hazard statements in full: 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.

Store Between: Store Between 5C – 25C

Contains SVHC: No

Legal Disclaimer:

This product should be used as directed by EnviroStik Holdings (UK) 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. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

* These figures are typical and do not constitute a specification