

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product Identifier

Product name: Treadmaster Adhesive No. 15 Part A

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

Identified uses: Two Part Adhesive component.

1.3. Details of the supplier of the Safety Data Sheet

Company name: Tiflex Limited
Tiflex House
Liskeard, Cornwall
PL14 4NB.
Telephone: +44 (0)1579 320808
Fax: +44 (0)1579 320802
E-mail: sward@tiflex.co.uk Steve Ward - Technical Manager

1.4. Emergency telephone number

Emergency tel: +44 (0)1579 320808 Office hours Mon-Thurs 9am - 5 pm, Fri 9am - 2pm

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1 Classification according to CLP:

Physical hazards: Not classified.
Health hazards: Skin Irrit. 2 - H315. Eye Irrit. 2 - H319. Skin Sens. 1 - H317
Environmental hazards: Aquatic Chronic 3 - H 412.

2.2 Label elements

Labelling according to CLP:

Signal words:

Hazard pictograms:

Warning



GHS 07

Hazard Statements: H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements: P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P302+ 352 IF ON SKIN: Wash with plenty of 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.
P332+ 313 If skin irritation occurs: Get medical advice / attention.
P337+ 313 If eye irritation persists: Get medical advice / attention.
P501 Dispose of contents / container to national regulations.

Contains: REACTION PRODUCT; BISPHENOL A (EPICHLORHYDRIN) EPOXY RESIN (AVERAGE NUMBER MOLECULAR WEIGHT <= 700), FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL MW <= 700, OXIRANE, MON[(C12-14-ALKYLOXY)METHYL] DERIVS.

Supplementary precautionary statements:

P261	Avoid breathing vapour / spray.
P264	Wash contaminated skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P321	Specific treatment (see medical advice on this label).
P333+ 313	If skin irritation or rash occurs: Get medical advice / attention.
P362+ 364	Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

PBT/vPvB: This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients

CAS No.	EINECS No.	REACH registered no.	Identification name	% Weight	Classification according to Regulation (EC) No 1278/2008 (CLP)
25068-38-6	500-033-5	01-2119456619-26-0004	Reaction Product; Bisphenol A-(Epichlorohydrin) Epoxy resin (Average number molecular weight <= 700)	16.4385 %	Eye Irrit. 2 - H319 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
9003-36-5		01-2119454392-40-XXXX	Formaldehyde, polymer with (chloromethyl) oxirane and phenol MW <=700	6.3225 %	Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
68609-97-2	271-846-8	01-2119485289-22-0000	Oxirane, Mono[(C12-14 Alkyloxy)Methyl] Derivatives	2.529 %	Skin Irrit. - H315 Skin Sens. 1 - H317

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information:	Remove affected person from source of contamination.
Following skin contact:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Following eye contact:	Rinse eye 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 rinsing. Show the safety data sheet to the medical professional.
Following ingestion:	DO NOT induce vomiting. Get medical attention immediately.
Following inhalation:	Move affected person to fresh air at once. Get medical attention if any discomfort continues.

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.
Skin contact:	Prolonged skin contact may cause redness and irritation.
Eye contact:	Irritation of the eyes and the mucous membranes.
Ingestion:	May cause discomfort if swallowed.
Inhalation:	Irritation of the nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.

4.3. Indication of immediate medical attention and special treatment needed

Immediate/special treatment:	No specific recommendations. If in doubt, get medical attention promptly.
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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 fire-fighting: Containers close to fire should be removed or cooled with water. Do not allow water to come into contact with any leaked material.

Advice for fire-fighters: 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: Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains, watercourses or onto the ground. Contain the spill using bunding.

6.3. Methods and materials 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

Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for more detailed information on health effects and symptoms. For waste disposal, see Section 13.

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.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: 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): Adhesive.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters

Workplace exposure limits:

REACTION PRODUCT; BISPHENOL A (EPICHLORHYDRIN) EPOXY RESIN (AVERAGE NUMBER MOLECULAR WEIGHT <= 700) (CAS: 25068-38-6)

DNEL	Workers	Dermal	Short term systemic effects	8.3 mg/kg bw/day
	Workers	Inhalation	Short term systemic effects	12.3 mg/m ³
	Workers	Dermal	Long term systemic effects	8.3 mg/kg bw/day
	Workers	Inhalation	Long term systemic effects	12.3 mg/m ³
	General population	Dermal	Short term systemic effects	3.6 mg/kg bw/day
	General population	Inhalation	Short term systemic effects	0.75 mg/m ³
	General population	Oral	Short term systemic effects	0.75 mg/kg bw/day
	General population	Dermal	Long term systemic effects	3.6 mg/kg bw/day
	General population	Inhalation	Long term systemic effects	0.75 mg/m ³
	General population	Oral	Long term systemic effects	0.75 mg/kg bw/day
PNEC	Fresh water		0.003 mg/l	
	STP		10 mg/l	
	Marine water		0.0003 mg/l	
	Sediment (Freshwater)		0.5 mg/kg	dry weight
	Sediment (Marinewater)		0.5 mg/kg	dry weight

Sediment	0.05 mg/kg	dry weight
Intermittent release	0.013 mg/l	

FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL) OXIRANE AND PHENOL MW <= 700 (CAS: **9003-36-5**)

DNEL	Workers	Dermal	Short term local effects	83 mg/m3
	Workers	Dermal	Long term systemic effects	104.15 mg/kg bw/day
	Workers	Inhalation	Long term systemic effects	29.39 mg/m3
	General population	Dermal	Long term systemic effects	62.5 mg/kg bw/day
	General population	Inhalation	Long term systemic effects	8.7 mg/m3
	General population	Oral	Long term systemic effects	6.25 mg/kg bw/day
PNEC	Fresh water		0.003 mg/l	
	Marine water		0.003 mg/l	
	STP		10 mg/l	
	Sediment (Freshwater)		0.294 mg/kg	dry weight
	Sediment (Marinewater)		0.0294 mg/kg	dry weight
	Soil		0.237 mg/kg	dry weight
	Intermittent release		0.0254 mg/l	

8.2. Exposure controls

Protective equipment:



8.2.1. Appropriate engineering controls: Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

8.2.2. Personal protection equipment:

8.2.2.1 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.

8.2.2.2.a Eye protection: Wear chemical splash goggles.

8.2.2.2.b Skin protection: Hand protection: Chemical resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber.

Other skin protection: Wear protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

8.2.2.2.c Respiratory protection: If ventilation is inadequate, suitable respiratory protection must be worn. In confined or poorly-ventilated spaces, a supplied-air fed respirator must be worn. Wear a respirator fitted with the following cartridge: Gas filter type AX.

8.2.2.2.d Thermal hazards: The molten product can cause serious burns.

8.2.3. 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:	Coloured liquid.
Odour:	Characteristic
Odour threshold:	Not available.
pH:	Not available.
Melting/freezing point:	Not applicable.
Initial boiling point and boiling range:	Not applicable.
Flash point:	>200°C CC (Closed cup).
Evaporation rate:	Slow.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive	Not applicable.

limits:

Vapour pressure:	Not available.
Vapour density:	Not applicable.
Relative density:	1.63 @ 20°C
Solubility:	Insoluble in water. Hardens in contact with water.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	>600°C
Decomposition temperature:	Not available.
Viscosity:	Kinematic viscosity > 20.5 mm ² /s.
Explosive properties:	Not available.
Oxidising properties:	Not available.

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.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity:	Amines.
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10.2. Chemical stability

Chemical stability:	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Hazardous reactions:	Not applicable. May polymerise.
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10.4. Conditions to avoid

Conditions to avoid:	Avoid contact with water. Strong alkalis.
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10.5. Incompatible materials

Materials to avoid:	Strong acids. Strong alkalis.
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10.6. Hazardous decomposition products

Haz. Decomp. Products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)	31,633.06
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Acute toxicity - dermal

ATE dermal (mg/kg)	31,633.06
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Skin corrosion / irritation

Animal data	Irritating
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Serious eye damage / irritation

Serious eye damage / irritation	Moderately irritating.
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Respiratory sensitisation

Respiratory sensitisation	Not sensitising.
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<u>Carcinogenicity</u>	
Carcinogenicity	Not available
Target organ for carcinogenicity	No specific target organs known.
<u>Reproductive toxicity</u>	
Reproductive toxicity - development	The substance has no evidence of toxicity to reproduction.
<u>Aspiration hazard</u>	
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
Inhalation	Irritating to the respiratory system.
Ingestion	May cause stomach pain or vomiting.
Skin contact	Irritating to skin.
Eye contact	Irritation of eyes and mucous membranes.
Acute and chronic health hazards	May cause respiratory system irritation. The product contains an epoxy resin.
Route of entry	Inhalation. Skin and / or eye contact.
Medical symptoms	Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.

Toxicological information on ingredients.

REACTION PRODUCT; BISPHENOL A (EPICHLORHYDRIN) EPOXY RESIN (AVERAGE NUMBER MOLECULAR WEIGHT <= 700) (CAS: 25068-38-6)

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	11,400.0	Species	Rat
ATE oral (mg/kg)	11,400.0		

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.0	Species	Rat
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FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL) OXIRANE AND PHENOL MW <= 700 (CAS: 9003-36-5)

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	2,000.0	Species	Rat
ATE oral (mg/kg)	2,000.0		

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	2,000.0	Species	Rabbit
ATE dermal (mg/kg)	2,000.0		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Dangerous for the environment.

12.1. Toxicity

Acute toxicity - fish	LC50	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	~ 1640 mg/l	Scenedesmus subspicatus

Ecological information on ingredients

OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS

Acute toxicity - fish:	LC50	96 hours	5000 mg/l	Onchorhynchus mykiss	(Rainbow trout)
	LC50	96 hours	1800 mg/l	Lepomis macr	> 500 mg/l (Bluegill)
Acute toxicity - aquatic plants:	EC50	72 hours	843 mg/l	Pseudokirchneriella subcapitata	
	NOEC	72 hours	500 mg/l	Pseudokirchneriella subcapitata	

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

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

OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS

Bioaccumulative potential: BCF: 160, Algae

Partition coefficient: log Pow: 3.77

12.4. Mobility in soil

Mobility: The product is non-volatile.

Ecological information on ingredients

OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS

Henry's law constant: 1.12E-02 atm m³/mol @ °C

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

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.

Waste class: 070208

SECTION 14: TRANSPORTATION INFORMATION

14.1. UN Number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Reaction Product; Bisphenol A(Epichlorhydrin) Epoxy Resin (Average number molecular weight <=700))

14.3. Transport hazard class(es)

Transport class: 9



Classification code: M6

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous substance / marine pollutant.



14.6. Special precautions for user

EmS: F-A, S-F

Hazard Identification Number (ADR/RID): 90

ADR transport category: 3

Tunnel restriction code: (E)

Emergency action code: •3Z

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code"

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)
Control of Pollution Act 1974.

EU Legislation: 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 for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

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

Classification according to Regulation (EC) No. 1272/2008:

Phrases used in s. 2 and 3:	H302	Harmful if swallowed.
	H312	Harmful in contact with skin.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.

Store between 5°C and 25°C

Information on this Health and Safety Data Sheet is drawn from a variety of sources, including raw material suppliers data, and other published sources.

This information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy his/herself as to the suitability of such information for his/her own particular use. This product falls within the scope of the Control of Substances Hazardous to Health (COSHH) Regulations. Users are reminded that this document does not in itself constitute an assessment of workplace risk as required by those regulations.