

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

Classification:

Physical Hazards: Not Classified.
Health Hazards: Skin Irrit. 2 - H315. Eye Irrit. 2 - H319. Skin Sens. 1 - H317
Environmental Hazards: Aquatic Chronic 2 - H411
Classification (67/548/EEC or 1999/45/EC): Xi; R36/38. R43. N; R51/53
Human Health: This product contains sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.
Environmental: The product is not expected to be hazardous to the environment.

2.2 Label elements

Hazard pictograms:



Signal word: Warning

Hazard statements:
H315 Causes skin irritation.
H317 May cause an allergic reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:
EUH205 Contains epoxy constituents. May produce an allergic reaction.
P260 Do not breathe vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
P281 Use personal protective equipment as required.
P285 In case of inadequate ventilation wear respiratory protection.
P305 + 351 + 338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P313 Get medical advice / attention.
P501 Dispose of contents / container to national regulations.

Contains: REACTION PRODUCT; BISPHENOL-A-(EPICHLOROHYDRIN) EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700), OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS, REACTION PRODUCT: BISPHENOL F-(EPICHLOROHYDRIN): EPOXY RESIN.

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.	Index 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 (NUMBER AVERAGE MOLECULAR WEIGHT <= 700)	60 - 100 %	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
28064-14-4	500-006-8		REACTION PRODUCT: BISPHENOL F-(EPICHLOROHYDRIN): EPOXY RESIN	10 - 30 %	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411
68609-97-2	271-846-8	01-2119485289-22-0000	OXIRANE, MONO[(C12-14-ALKYLOXY)METHYL] DERIVS	10 - 30 %	Skin Irrit. 2 - 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. If in doubt get medical advice / attention.

Following inhalation: Remove affected person from source of exposure ensuring one's own safety first. Keep warm, comfortable and at rest. Get medical attention if any discomfort continues.

Following ingestion: DO NOT INDUCE VOMITING! Get medical attention immediately.

Following skin contact: Remove all contaminated clothing immediately and wash skin affected area with plenty of water and soap. Get medical attention if any discomfort continues. Launder clothing before re-use.

Following eye contact: Rinse eye immediately with plenty of water. Remove any contact lenses if present and easy to do so and open the eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after rinsing. Show this Safety Data Sheet to the medical personnel.

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 the 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: Irritation of the eyes and mucous membranes.

4.3. Indication of immediate medical attention and special treatment needed

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

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.
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6.2. Environmental precautions

Environmental precautions:	Do not discharge into drains, watercourses or onto the ground. Contain the spill using bunding.
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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.
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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.
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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.
Suitable packaging:	Must only be kept in original packaging.

7.3. Specific end use (s)

Specific end use(s):	Adhesive.
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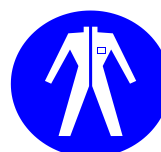
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters

Ingredient comments:	WEL = Workplace Exposure Limits.
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8.2. Exposure controls

Protective Equipment:



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

8.2.2. Personal protection equipment:

8.2.2.(a). Eye protection: Wear chemical splash goggles.

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

Hygiene measures: Use engineering controls to reduce air contamination to permissible exposure level. Wash hands thoroughly after any handling. When using this product ensure there is NO eating, drinking or smoking.

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

8.2.2.(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

Flash point: > 200°C CC (Closed Cup)

Evaporation rate: Slow

Relative density: 1.63 @ 20°C

Solubility: Insoluble in water. Hardens in contact with water.

Auto-ignition temperature: > 600°C

Viscosity: Kinematic viscosity > 20.5 mm²/s

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 under 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. Strong alkalis.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong alkalis.

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.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin corrosion / irritation:

Animal data: Irritating.

Serious eye damage / irritation:

Serious eye damage / irritation: Moderately irritating.

Respiratory sensitisation:

Respiratory sensitisation: Sensitising.

Carcinogenicity:

Carcinogenicity: Not available

Target organ for carcinogenicity: No specific target organs known.

Reproductive toxicity:

Reproductive toxicity development: This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - repeated exposure:

STOT- repeated exposure:	Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.
Aspiration hazard:	
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. Frequent inhalation of vapours may cause respiratory allergy.
Route of entry:	Inhalation, skin and / or eye contact.
Medical symptoms:	Irritation of the eyes and mucous membranes. Coughing, chest tightness, a feeling of chest pressure.
Medical considerations:	Chronic respiratory and obstructive airway distress.

SECTION 12: ECOLOGICAL INFORMATION

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

12.1. Toxicity

Acute toxicity - fish:	LC50	96 hours	> 1000	mg/l	Freshwater fish
Acute toxicity - aquatic invertebrates:	EC ₅₀	48 hours	> 500	mg/l	Daphnia magna
Acute toxicity - aquatic plants:	EC ₅₀	72 hours	1640	mg/l	Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability: This 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.

12.4. Mobility in soil

Mobility: The product is non-volatile.

12.5. Results of PBT and vPvB assessment

PBT/vPvB identification: This product does not contain any substances classified as PBT or vPvB.

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

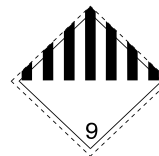
UN No. (ADR / RID):	3082
UN No. (IMDG):	3082
UN No. (ICAO):	3082
UN No. (ADN):	3082

14.2. UN proper shipping name

Proper shipping name (ADR / RID): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper shipping name (IMDG): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper shipping name (ICAO): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper shipping name (ADN): ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3. Transport hazard class(es)

ADR / RID class	9	Transport labels:
ADR / RID classification code:	M6	
ADR /RID label:	9	
IMDG class:	9	
ICAO class:	9	
ADN class:	9	



14.4. Packing group

ADR / RID packing group:	III
IMDG packing group:	III
ADN packing group:	III
ICAO packing group:	III

14.5. Environmental hazards

Environmentally hazardous substance / marine pollutant.:



14.6. Special precautions for user

EmS:	F-A, S-F.
ADR Transport category:	3
Emergency Action Code:	•3Z
Hazard Identification Number (ADR/ RID):	90
Tunnel restriction code:	(E)
Transport category:	3

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.
 Control of Substances Hazardous to Health 2002 (as amended),

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

Phrases used in s. 2 and s. 3:

H315	Causes skin irritation.
H317	May cause allergic reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.