

SAFETY DATA SHEET

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

1.1. Product Identifier

Product name: **Treadmaster Rapid Part A**

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

Identified uses: Adhesives, sealants.

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: Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317

Environmental hazards: Aquatic Chronic 2: H411;

2.1.2 Classification according to CHIP: Xi: R36/38; Sens.: R43; N: R52/53

2.1.3 Additional information: Human health: May cause sensitisation or allergic reactions in sensitive individuals.
Environmental: The product contains a substance which is toxic to aquatic organisms.

2.2 Label elements

Labelling according to CLP:

Hazard pictograms:



GHS07

Signal words: Warning

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 so. 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 9(AVERAGE NUMBER MOLECULAR WEIGHT <=700), FORMALDEHYDE, POLYMER WITH (CHLOROMETHYL)OXIRANE AND PHENOL MW <=700, OXIRANE, MONO [(C12-14-ALKYLOXY)METHYL] DERIVS

Supplementary precautionary P261 Avoid breathing vapour / spray.

statements:	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 use.

2.3 Other hazards

PBT: This material is not Classified as PBT/vPvB substance.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Hazardous Ingredients

CAS No.	EINECS No.	REACH Registration No.	Identification name	% Weight	Classification according to Regulation (EC) No 1278/2008 (CLP)
25068-38-6	500-033-5	01-2119456619-26-0004	Bisphenol A-(Epichlorhydrin) Epoxy Resin (Average Number Molecular weight <=700) {Reaction Product}	10 - 30	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	5 - 10	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[(C12-14Alkyloxy)Methyl] Derivatives	1 - 5	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. In all cases of doubt, or when symptoms persist, seek medical attention.
Following skin contact:	Remove all contaminated clothing and footwear immediately unless stuck to the skin. Wash skin immediately 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 the 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 medical personnel.
Following ingestion:	DO NOT induce vomiting. Get medical attention immediately.
Following inhalation:	Remove the affected person to fresh air at once, ensuring one's own safety first. Get medical attention if any discomfort persists.

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 mucous membrane.
Ingestion:	May cause discomfort if swallowed.
Inhalation:	Irritation of the nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

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.
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

Protective equipment: Wear protective clothing as described in Section 8 of this Safety Data Sheet.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and materials for containment and cleaning up

6.3.1. Containment procedures: Contain the spillage using bunding.
6.3.2. Clean up procedures: Absorb spillage with a non-combustible absorbent material. Collect and place in suitable waste disposal container and seal securely. Provide adequate ventilation. Contain spillage with sand or other suitable non-combustible material. Avoid spillage runoff from 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 precautions: Store in
Storage class: Chemical storage.

7.3. Specific end use (s)

Specific end use(s): Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters

Ingredient comments: WEL = Workplace Exposure Limits

8.1. DNEL/PNEC Values

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

DNEL	WORKERS	Dermal	Short term systemic effects:	83 mg/kg	bw/day
	WORKERS	Inhalation	Short term systemic effects:	12.3 mg/m3	
	WORKERS	Dermal	Long term systemic effects:	8.3 mg/kg	bw/day
	WORKERS	Inhalation	Long term systemic effects:	12.3 mg/m3	
	GEN. POP.	Dermal	Short term systemic effects:	3.6 mg/kg	bw/day
	GEN. POP.	Inhalation	Short term systemic effects:	0.75 mg/m3	
	GEN. POP.	Oral	Short term systemic effects:	0.75 mg/kg	bw/day

GEN. POP.	Dermal	Long term systemic effects:	3.6 mg/kg	bw/day
GEN. POP.	Inhalation	Long term systemic effects:	0.75 mg/m ³	
GEN. POP.	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 (Fresh water)		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 systemic effects:	83 mg/m ³	
	WORKERS	Dermal	Long term systemic effects:	104.15 mg/kg	bw/day
	WORKERS	Inhalation	Long term systemic effects:	29.39 mg/m ³	
	GEN. POP.	Dermal	Long term systemic effects:	62.5 mg/kg	bw/day
	GEN. POP.	Inhalation	Long term systemic effects:	8.7 mg/m ³	
	GEN. POP.	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 (Fresh water)		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.

8.2.2.2. Personal protection equipment:

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

8.2.2.2.(b) Skin protection:

- (i) 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.
- (ii) Wear suitable 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 respirator must be worn. Wear 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

Colour: Various colours.

Odour: Characteristic.

Odour threshold: Not available.

pH: Not available.

Melting point: Not applicable.

Initial Boiling Point / Range: Not applicable.

Flash Point:	> 200°C CC (Closed cup)
Evaporation rate:	Slow
Evaporation factor:	Not available.
Flammability (solid, gas):	Not available.
Upper / lower flammability or explosive limits:	Not applicable.
Other flammability:	Not available.
Vapour density:	Not applicable.
Relative density:	1.63 @20°C
Bulk density:	Not available.
Solubility(ies):	Insoluble in water. Hardens in contact with water.
Partition coefficient:	Not available.
Auto-ignition temperature:	> 600°C
Decomposition temperature:	Not available
Viscosity:	Kinematic viscosity > 20.5 mm ² /s
Explosive properties:	Not available.
Explosive under the influence of a flame:	Not considered to be explosive.
Oxidising properties:	Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: Amines.

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. 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

Acute toxicity - oral

ATE oral (mg/Kg) 31,633.06

Acute toxicity - dermal

ATE dermal (mg/kg) 31,633.06

Skin corrosion / irritation:

Animal data: Irritating.

Serious eye damage / irritation:

Serious eye damage / irritation: Moderately irritating.

Respiratory sensitisation:

Respiratory sensitisation: Not 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.
Aspiration hazard:	
Aspiration hazard:	Not anticipated to present an aspiration hazard, based on chemical structure.
Inhalation:	
Inhalation:	Irritating to respiratory system.
Ingestion:	
Ingestion:	May cause stomach pain or vomiting.
Skin contact:	
Skin contact:	Irritating to skin.
Eye contact:	
Eye contact:	Irritation of eyes and mucous membranes.
Acute and Chronic health hazards:	May cause respiratory system sensitisation. The product contains epoxy resin.
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.

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

Acute toxicity - oral

Acute toxicity - oral	LD50 mg/kg	11,400.0
Species		RAT

Acute toxicity - dermal

Acute toxicity - dermal	LD50 mg/kg	2,000.00
Species		RAT

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

Acute toxicity - oral

Acute toxicity - oral	LD50 mg/kg	2,000.0
Species		RAT

Acute toxicity - dermal

Acute toxicity - dermal	LD50 mg/kg	2,000.00
Species		RABBIT

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity values: Dangerous for 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

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 macrochirus (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: 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: This product does not contain any substances expected to be bioaccumulating.
Partition coefficient Not available.

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

Bioaccumulative potential: BCF: 160 Algae
Partition coefficient log Pow: 3.77

12.4. Mobility in soil

Mobility: This product is non-volatile.

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 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 a licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods: Dispose of waste to a 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

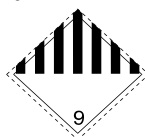
UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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 / Marine pollutant:



14.6. Special precautions for user

EmS F-A, S-F **Hazard identification No. (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. 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.
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SECTION 16: OTHER INFORMATION

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

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.