

SAFETY DATA SHEET

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

1.1. Product Identifier

Product / Substance name: **Treadmaster Masterfinish (part B)**

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

Identified uses: Two-pack reactive performance coatings for specific end use such as floors.

1.3. Details of the supplier of the Safety Data Sheet

Company name: Tiflex Limited
Address: Tiflex House
Liskeard, Cornwall
PL14 4NB.
UNITED KINGDOM
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 Only available during office hours Mon-Thurs 9am - 5 pm, Fri 9am - 2pm

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture:

2.1.1 Classification according to Regulations (EC) No 1272/2008 (CLP)

Physical hazards: Not classified.
Health hazards: Skin Irrit. 2 - H315. Skin ~Sens. 1 - H317. Eye Dam. 1 - H318. Acute Tox. 4 - H332. STOT SE 3 - H335
Environmental hazards: Aquatic Chronic 3 - H412
2.1.2 Additional information: Classification (67/548/EEC or 1999/45/EC): Xn; R20. Xi; R43
Human Health: Harmful by inhalation. May cause sensitisation by skin contact.
Environmental: The Product contains a substance which is harmful to aquatic organisms.
For full text of Hazard and EU Hazard statements: see SECTION 16

2.2 Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements: H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention: P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P264 Wash with clean water 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.

	P273	Avoid release to the environment.
	P280	Wear protective gloves / protective clothing / eye protection / face protection.
Response	P302 + 352	IF ON SKIN: wash with plenty of water.
	P304 + 340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P305 + 351 + 338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTRE or doctor / physician.
	P312	Call a POISON CENTRE or doctor / physician.
	P321	Specific treatment (see first aid measures on this label).
	P332 + 313	If skin irritation occurs: Get medical advice / attention.
	P333 + 313	If skin irritation or rash occurs: Get medical advice / attention.
Storage	P403 + 233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
Disposal	P501	Dispose of contents / container to requirements of local authority.

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.	EC No.	Index No.	REACH Registration No.	Identification name	% Weight	Classification according to Regulation (EC) No 1278/2008 (CLP)
28182-81-2	500-060-2			Hexamethylene diisocyanate oligomers	40 - 50	Skin Sens. 1 - H317 Acute Tox. 4 - H332 STOT SE 3 - H335
53880-05-0	931-312-3			3-Isocyanatomethyl-3-5,5-trimethylcyclohexyl isocyanate oligomers	10 - 20	Skin Sens. 1 - H317 STOT SE 3 - H335
9046-01-9				Polyoxyethylene tridecyl ether phosphate	1 - 10	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411
98-94-2				Dimethylcyclohexylamine	1 - 10	Flam. Liq. 3 - H226 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Skin Corr. 1B - H314 Acute Tox. 3 - H331 Aquatic Chronic 2 - H411
822-06-0	212-485-8	615-011-00-1		Hexamethylene-di-isocyanate	0 - 0.5	Acute Tox. 3 - H331 Eye Irrit. 2 - H319 STOT SE 3 - H335 Skin Irrit. 2 - H315 Resp. Sens. 1 - H 334 Skin Sens. 1 - H317
4098-71-9	223-861-6	615-008-00-5		3-isocyanatomethyl-3-5,5-trimethylcyclohexyl isocyanate	0 - 0.5	Acute Tox. 3 - H331 Eye Irrit. 2 - H319 STOT SE 3 - H335 Skin Irrit. 2 - H315 Resp. Sens. 1 - H 334 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

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 inhalation:	Remove affected person to fresh air immediately, ensuring one's own safety first, keep warm, at rest and in a position comfortable for breathing. Get medical attention. If patient is unconscious, place in the

Following skin contact:	recovery position and seek medical help immediately. Remove all contaminated clothing and launder before re-use. Wash the affected area with clean running water and soap. If any irritation persists after rinsing or discomfort occurs seek medical attention.
Following eye contact:	Rinse immediately with plenty of water. Check for and remove any contact lenses if present and easy to do so. Continue to rinse for at least 15 minutes whilst opening the eye lids. If any irritation or discomfort persist after rinsing seek medical advice.
Following ingestion:	DO NOT INDUCE VOMITING. Seek medical advice.
Self protection for first aider:	Keep yourself protected, assess your surroundings, be cautious of any fumes or vapours. On approach always put on your gloves.

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

Inhalation:	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system.
Skin contact:	May cause irritation to skin.
Eye contact:	May cause irritation to eyes.
Ingestion:	Ingestion may cause nausea and vomiting.

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

Inhalation:	If you feel unwell, seek medical advice (show the label or safety data sheet where possible).
Skin contact:	Seek medical attention if irritation or symptoms persist.
Eye contact:	Seek medical attention.
Ingestion:	If you feel unwell, seek medical advice (show the label or safety data sheet where possible).

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

5.2. Special hazards arising from the substance or mixture

Specific Hazards: Burning produces irritating, toxic and obnoxious fumes.

Hazardous combustion products:

5.3. Advice for Fire-fighters

Protective actions during fire-fighting: Cool exposed containers with water.

Advice for fire-fighters: Fire-fighters must wear self-contained breathing apparatus and protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel: Ensure adequate ventilation of the area. Avoid contact with skin and eyes. Wear suitable protective equipment (see Section 8 for Personal Protective Equipment).

6.1.2. For emergency responders: Wear suitable protective equipment (see Section 8 for Personal Protective Equipment).

6.2. Environmental precautions

Environmental precautions: Do not allow product to enter drains. Prevent further spill if safe to do so, turn leaking containers leak-side up.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment: Contain spillage with appropriate bunding, use sand, earth or other suitable non-combustible material or absorbent. Prevent spillage runoff from entering drains, sewers and water courses.

6.3.2. For cleaning up: Absorb spill with non-combustible, absorbent material. Collect into suitable waste disposal containers and seal securely. Provide adequate ventilation of the area. Avoid spillage run-off entering drains, sewers or

6.3.3. Other information: Wear protective clothing as described in Section 8 of this safety data sheet.

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

Protective measures:	Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Adopt best Manual Handling considerations when handling, carrying and dispensing.
Measures to prevent fire:	Non-flammable.
Measures to prevent aerosol and dust generation:	Spraying is permitted only in closed systems, spray cabinets or spray boxes with adequate ventilation.
Measures to protect the environment:	Adopt best Manual Handling considerations when handling, carrying and dispensing.
Advice on general occupational hygiene:	Observe best practice when handling, wash thoroughly after use. Strictly no eating or drinking when handling this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in a cool, dry and well-ventilated area.
Packaging materials:	Store in correctly labelled, original and tightly sealed packaging.
Requirements for storage rooms and vessels:	All chemical preparations / mixtures should be stored securely where they cannot be interfered with or used by unauthorised persons.

7.3. Specific end use (s)

Recommendations:	The identified uses for this product are detailed in Section 1.2.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters

Workplace exposure limits:

8.2. Exposure controls



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. Eye protection:	Wear approved safety goggles.
8.2.2.2. Skin protection:	Hand protection: Wear suitable gloves. Other skin protection: Wear suitable protective clothing.
8.2.2.3. Respiratory protection:	Wear suitable respiratory equipment when necessary.
8.2.2.4. Thermal hazards:	No known hazards.
8.2.3. Environmental exposure controls:	Keep container tightly sealed and in an upright position when not in use. Adopt best Manual Handling considerations when handling, carrying and dispensing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Light yellow viscous liquid.
Odour:	Characteristic.
Odour threshold:	No data available.
pH:	No data available.
Melting/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash point:	- 76°C
Evaporation rate:	No data available.

Flammability (solid/gas):	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Relative density:	= 1.064 (H ₂ O = 1 @ 20°C)
Solubility:	Insoluble in water.
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidising properties:	No data available.

9.2. Other Information

Conductivity:	No data available.
Surface tension:	No data available.
Gas group:	No data available.
Benzene content:	No data available.
Lead content:	No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity:	Stable under normal conditions.
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10.2. Chemical stability

Chemical stability:	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions:	No data is available on this product.
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10.4. Conditions to avoid

Conditions to avoid:	No data is available on this product.
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10.5. Incompatible materials

Materials to avoid:	No data is available on this product.
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10.6. Hazardous decomposition products

Haz. Decomp. Products:	No data is available on this product.
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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin corrosion / irritation:	May cause skin irritation.
Serious eye damage / irritation:	May cause irritation to the eyes.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	No data is available on this product.
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12.1. Toxicity

No data is available on this product.

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

Partition coefficient n-octanol / water (log K_{ow}): No data is available on this product.

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Other adverse effects: None known.

12.7. Additional information

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal: Dispose of in compliance with all local and national regulations.

SECTION 14: TRANSPORTATION INFORMATION

14.1. UN Number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

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

The product is not classified as dangerous for carriage.

SECTION 15: REGULATORY INFORMATION

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

Regulations

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

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

Risk phrases Section 2	R20	Harmful by inhalation.
	R43	May cause sensitisation by skin contact.
Hazard statements Section 3	H226	Flammable liquid and vapour.
	H301	Toxic if swallowed.
	H311	Toxic in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H318	Causes serious eye damage.
	H319	Causes serious eye irritation.
	H331	Toxic if inhaled.
	H332	Harmful if inhaled.
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335	May cause respiratory 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.