

SAFETY DATA SHEET

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

1.1. Product Identifier

Product name: Treadmaster SPF Cleaner
Synonyms; Trade names: Isopropanol
REACH registration number: 01-2120063207-61-0000
CAS number: 67-63-0
EU Index number: 603-117-00-0
EINECS number: 200-661-7

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

Identified uses: Etchant / cleaner.

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: Flam. Liq. 2 - H225
Health Hazards: Eye Irrit. 2 - H319. STOT SE 3 - H336
Environmental Hazards: Not classified.
Classification (67/548/EEC or 1999/45/EC): F; R11. Xi: R36. R67

2.2 Label elements

Hazard pictograms:



Signal word: Danger
Hazard statements: H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
Precautionary statements: P210 Keep away from heat / sparks / open flames / hot surfaces. - No smoking.
P280 Wear protective gloves/protective clothing/eye protection/face 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.
P501 Dispose of contents / container in accordance with national regulations.
P260 Do not breathe dust / fume / gas / mist / vapours / spray.
Contains: PROPAN-2-OL

Supplementary Precautionary statements:

P240	Ground / bond container and receiving equipment.
P241	Use explosion-proof electrical equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapour / spray.
P264	Wash contaminated skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P303 + 361 + 353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304 + 340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTRE / doctor if you feel unwell.
P337 + 313	If eye irritation persists: Get medical advice / attention.
P370 + 378	In case of fire: Use CO2, powder or water spray for extinction.
P403 + 233	Store in a well-ventilated place. Keep container tightly closed.
P403 + 235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

2.3 Other hazards

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substance

Product identifier type in accordance with Article 18(2) of Regulation (EC) No 1272/2008

CAS No.	Identification name	REACH Registration No.	Weight content %	EC No.
67-63-0	PROPAN-2-OL	01-2120063207-61-0000	60 - 100 %	200-661-7

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 recovery position and seek medical help immediately.
Following skin contact:	Remove all contaminated clothing and laundry 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 wide apart. If any irritation or discomfort persist after rinsing seek medical advice.
Following ingestion:	DO NOT INDUCE VOMITING. Get medical attention immediately.
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

General Information:	The severity of the symptoms described will vary dependant on the concentration and the length of exposure.
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).
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Skin contact:	Seek medical attention if irritation or symptoms persist.
Eye contact:	Seek medical attention (show the label or safety data sheet where possible).
Ingestion:	Get medical attention immediately (show the label or safety data sheet where possible).

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 highly flammable. Heating may generate flammable 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 fire-fighting:	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.
Advice for fire-fighters:	Wear self-contained breathing apparatus. Wear chemical protective clothing to prevent contact with skin and eyes. Collect contaminated fire fighting water separately. It must NOT enter the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:	Keep all non-essential personnel away from source of exposure.
Protective equipment:	Wear Respiratory protection if exposure levels are likely to be exceeded, chemical resistant gloves and protective clothing (see Section 8 of Safety Data Sheet for full details).
Emergency procedures:	Ensure adequate ventilation of the area. Remove all sources of ignition, ensure lighting and electrical equipment are not source of ignition, use non-sparking tools.

6.2. Environmental precautions

Environmental precautions:	Contain the spillage using bunding. Dilute with plenty of water. DO NOT allow to enter sewers / surface or ground water, drains, watercourses or onto the ground.
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6.3. Methods and materials for containment and cleaning up

6.3.1. Containment procedures:	Contain the spillage using bunding. Eliminate all sources of ignition. Ventilate the area.
6.3.2. Clean up procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation of the area. Send for recovery or disposal in suitable receptacles. Blanket spillage with AFFF Foam Spray to seal from sources of ignition. Use non-sparking tools, ensure lighting and electrical equipment are not source of ignition. Vapours may accumulate on the floor and in low-lying areas.

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

Handling requirements:	Eliminate all sources of ignition, use non-sparking tools. Static electricity and formation of sparks must be prevented. Avoid inhalation of vapours, sprays and mists. Vapours may accumulate on the floor and in low-lying areas. Use only in well-ventilated areas. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). HSG140 - The Safe Use and Handling of Flammable Liquids, for more detailed understanding of the practices
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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:	Store in closed and original containers at temperatures between 5°C and 25°C. Keep away from all sources of ignition.
Packaging materials:	Must only be kept in original packaging. You are recommended to refer to HSE publications HSG51 - The Storage of Flammable Liquids in Containers.

Requirements for storage rooms and vessels: Store in area marked with EX signs under Dangerous Substances and Explosive Atmosphere Regs. Only store in suitable bunded storage areas.

Storage class: FLAMMABLE LIQUID STORAGE

7.3. Specific end use (s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

8.1. Control parameters

Occupational exposure limits:

State	8 hour TWA				15 min. STEL			
	UK	400	ppm	999	mg/m ³	500	ppm	1250

Hazardous ingredients:

PROPAN-2-OL

State	8 hour TWA				15 min. STEL			
	UK	400	ppm	999	mg/m ³	500	ppm	1250

DNELs

PROPAN-2-OL

Route of exposure	Workers				Consumers			
	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral								26 mg/kg
Inhalation				500 mg/m ³				89 mg/m ³
Dermal				888 mg/kg				319 mg/kg

PNECs

Environmental protection target	PNEC
Fresh water	140.9 mg/l
Freshwater sediments	552 mg/kg
Marine water	140.9 mg/l
Marine sediments	552 mg/kg
STP	2251 mg/l
Intermittent release	140.9 mg/l
Soil	28 mg/kg

8.2. Exposure controls

Protective Equipment



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

8.2.2. Personal protection equipment:

8.2.2.(a). Eye protection: The following protection should be worn: Chemical splash goggles or face shield.

8.2.2.(b). Skin protection:

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: VITON rubber (fluoro 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.

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:	Clear Liquid		
Odour:	Acetone		
Odour threshold:	Not available.		
pH:	Estimated value. pH (concentrated solution): 7-8		
Melting point:	Not available.		
Initial boiling point and range:	56°C @ 20		
Flash point:	11.7°C		
Evaporation rate:	Not determined.		
Evaporation factor:	Not available.		
Flammability (solid / gas):	Not available.		
Upper flammability or explosive limits:	Estimated value. 13%	Lower flammability or explosive limits:	Estimated value. 1.8%
Other flammability:	Not available.		
Vapour pressure:	Not available.		
Vapour density:	Not available.		
Relative density:	0.86 @ 20°		
Bulk density:	Not available.		
Solubility(ies):	Insoluble in water.		
Partition coefficient:	Not available.		
Auto-ignition temperature:	Estimated value. 515°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.		
Comments:	Information given is applicable to the product as supplied.		

9.2. Other Information

Volatile organic compound: This product contains a maximum VOC content of 873 g/litre

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity: There are no known reactivity hazards associated with this product.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: Not applicable.

10.4. Conditions to avoid

Conditions to avoid: Avoid contact with strong oxidising agents.

10.5. Incompatible materials

Materials to avoid: Acids - oxidising. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Haz. Decomp. Products: Does not decompose when used and stored as recommended.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity values:

Route	Species	Test	Value	Units
ORAL	RAT	LD50	5840	mg/kg
DERMAL	RBT	LD50	2000	mg/kg
VAPOURS	RAT	LC50	30	mg/l

Symptoms:

Inhalation:	Vapours may cause drowsiness and dizziness. Irritation of the nose, throat and airway.
Ingestion:	May cause chemical burns in the mouth and throat.
Skin contact:	Prolonged skin contact may cause redness and irritation.
Eye contact:	Severe irritation, burning and tearing.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

PROPAN-2-OL

Acute toxicity - fish:	LC ₅₀	48 hours	> 100	mg/l	Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates:	EC ₅₀	48 hours	> 100	mg/l	Daphnia magna
Acute toxicity - aquatic plants:	EC ₅₀	72 hours	> 100	mg/l	Scenedesmus subspicatus

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

PROPAN-2-OL

Bioaccumulative potential:	The product does not contain any substances expected to be bioaccumulating.
Partition coefficient:	Not available.

12.4. Mobility in soil

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Mobility:	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
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12.5. Results of PBT and vPvB assessment

PROPAN-2-OL

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

Other adverse effects:	Not known.
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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. Residues and empty containers should be taken care or as hazardous waste according to local and national provisions.

SECTION 14: TRANSPORTATION INFORMATION


14.1. UN Number

UN No. (ADR / RID):	1219
UN No. (IMDG):	1219
UN No. (ICAO):	1219
UN No. (ADN):	1219

14.2. UN proper shipping name

Proper shipping name (ADR / RID):	ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper shipping name (IMDG):	ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper shipping name (ICAO):	ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper shipping name (ADN):	ISOPROPANOL (ISOPROPYL ALCOHOL)

14.3. Transport hazard class(es)

ADR / RID class	3	Transport labels:
ADR / RID classification code:	F1	
ADR /RID label:	3	
IMDG class:	3	
ICAO class:	3	
ADN class:	3	

14.4. Packing group

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

14.5. Environmental hazards

Environmentally hazardous substance / marine pollutant.: No

14.6. Special precautions for user

EmS:	F-E, S-D.
ADR Transport category:	2
Emergency Action Code:	•2YE
Hazard Identification Number (ADR/ RID):	33
Tunnel restriction code:	(D/E)

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

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).
Restrictions (Title VIII Regulation 1907/2006):	Not to be sold to the general public above 0.1 %
Water hazard classification:	WGK 2

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 3:	H225	Highly flammable liquid and vapour.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	R11	Highly flammable.
	R36	Irritating to eyes.
	R67	Vapours may cause drowsiness and dizziness.
Store Between:	Store between 5°C - 25°C.	
Contains SVHC:	NO	

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.