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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

# Tikal Tef Gel

CAS No.:  
EC No.:  
INDEX No.:  
REACH No.:

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

Relevant identified uses:  
Uses advised against: Other

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Tikal Marine Systems GmbH

Werkstrasse 6  
D 22844 Norderstedt, Germany

Telephone: +49 40 526 30 60 3

Telefax: +49 40 526 30 60 5

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Tikal Marine Systems GmbH

Werkstrasse 6  
D 22844 Norderstedt, Germany

Telephone: +49 40 526 30 60 3

Telefax: +49 40 526 30 60 5

#### Information contact

Tikal Marine Systems GmbH

Information telephone: +49 40 526 30 60 3

Information telefax: +49 40 526 30 60 5

E-mail (competent person): [info@tikal-online.de](mailto:info@tikal-online.de)

Website: <http://www.tikal-online.com>

#### National contact

Tikal Marine Systems GmbH

Information telephone: +49 40 526 30 60 3

Information telefax: +49 40 526 30 60 5

E-mail (competent person): [info@tikal-online.de](mailto:info@tikal-online.de)

Website: <http://www.tikal-online.com>

#### Dept. responsible for information:

Tikal Marine Systems GmbH

### 1.4. Emergency telephone number

Tikal Marine Systems GmbH  
This number is serviced during office hours.

Telephone: +49 40 526 30 60 3

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## SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008: -

## 2.2. Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms: -

Signal word: -

Hazard statements: -

Precautionary statements: -

## 2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

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## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

Organic thickener in synthetic oil with additives

#### Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):
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#### Substance with a common (EC) occupational exposure limit value

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):
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(Full text of H- and EUH-phrases: see section 16.)

#### Additional information

none

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## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information:** In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible). Take off immediately all contaminated clothing.

**Following inhalation:** Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

**Following skin contact:** After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

**After eye contact:** In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

**After ingestion:** Rinse mouth thoroughly with water. Do not induce vomiting. No administration in cases of unconsciousness or cramps. Immediately get medical attention.

**Self-protection of the first aider:** First aid assistant: Pay attention to self-protection!

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

**Symptoms:** No symptoms known up to now.

**Nature of Hazard:** No risks worthy of mention.

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

**Notes for the doctor:** Provide fresh air.

**Special treatment:** First Aid, decontamination, treatment of symptoms.

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Foam.

**Unsuitable extinguishing media:** Water fog. High power water jet. Water.

### 5.2. Special hazards arising from the substance or mixture

Pyrolysis products, contains fluorine. Carbon monoxide. Carbon dioxide.

### 5.3. Advice for firefighters

#### General information

Use water spray/stream to protect personnel and to cool endangered containers.

#### Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus. Wear chemical resistant suit.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Remove all sources of ignition. Guide people to safety. Provide adequate ventilation.

### 6.2. Environmental precautions

Prevent spreading over great surfaces (e.g. by damming or installing oil booms). Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the assimilated material according to the section on waste disposal. Avoid generation of dust. Clear contaminated area thoroughly. Wash with generous amount of water.

### 6.4. Reference to other sections

See protective measures under point 7 and 8.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Avoid contact with skin and eyes.

#### Technical measures

Provide for sufficient ventilation and punctiform suction at critical points.

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**Precautions against fire and explosion**

Usual measures for fire prevention.

**Additional information**

none

**7.2. Conditions for safe storage, including any incompatibilities**

**Technical measures and storage conditions**

Ensure adequate ventilation of the storage area.

**Packaging materials**

Keep/Store only in original container.

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

Do not store together with: Oxidizing agents. Keep away from food, drink and animal feedingstuffs.

**Storage class:** 10-13

**Further information on storage conditions**

none

**7.3. Specific end use(s)**

Observe instructions for use.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**occupational exposure limit value**

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

**Substance with a common (EC) occupational exposure limit value**

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:

**DNEL-/PNEC-values**

**DNEL value**

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer

**PNEC Value**

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer

**Risk management measures according to used control banding approach**

none

**Additional information**

none

**8.2. Exposure controls**

**Occupational exposure controls**

Provide for sufficient ventilation and punctiform suction at critical points. Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.

**General protection and hygiene measures**

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

#### Personal protection equipment

none

#### Respiratory protection

Respiratory protection not required. Respiratory protection required in case of: insufficient ventilation. Suitable respiratory protective equipment: filter respirator (full mask or mouth-piece) with filter: Combination filter device (DIN EN 141).

#### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374 Suitable material: CR (polychloroprenes, Chloroprene rubber).

#### Eye/face protection

Tightly sealed safety glasses.

#### Body protection

For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

#### Environmental exposure controls

refer to chapter 7. No further action is necessary.

#### Consumer exposure controls

refer to chapter 7. No further action is necessary.

#### Exposure Scenario

none

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

**Physical state:** liquid Paste  
**Colour:** colourless white  
**Odour:** characteristic like: hydrocarbons.  
**Odour threshold:** No data available

#### Safety relevant basis data

	parameter	unit	remark
<b>Density:</b>			No data available
<b>Bulk density:</b>			not applicable
<b>pH:</b>			No data available
<b>Melting point/freezing point:</b>			No data available
<b>Initial boiling point and boiling range:</b>			No data available
<b>Flash point:</b>			No data available
<b>Flammability (solid, gas):</b>			No data available
<b>Explosivity:</b>			No data available
<b>Lower explosion limit:</b>			not applicable
<b>Upper explosion limit:</b>			not applicable
<b>Ignition temperature:</b>			No data available
<b>Decomposition temperature:</b>			No data available
<b>Oxidizing potential:</b>			No data available
<b>Vapour pressure:</b>			No data available

<b>Vapour density:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Water solubility:</b>	insoluble
<b>Fat solubility:</b>	partially soluble
<b>Soluble in:</b>	not applicable
<b>Partition coefficient: n-octanol/water:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Solvent separation test:</b>	No data available
<b>Solvent content:</b>	No data available

## 9.2. Other information

none

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

none

### 10.2. Chemical stability

none

### 10.3. Possibility of hazardous reactions

none

### 10.4. Conditions to avoid

heat.

### 10.5. Incompatible materials

Oxidizing agents. Reducing agents.

### 10.6. Hazardous decomposition products

Pyrolysis products, contains fluorine. Carbon monoxide. Carbon dioxide.

#### Additional information

none

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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

There are no data available on the mixture itself.

#### Acute toxicity

Substance:	CAS-No.:	Toxicological information
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#### Specific symptoms in laboratory animals

No information available.

#### Irritation and etching

Irritant effect on the skin  
mild irritant.

Irritant effect on the eye  
mild irritant.

Irritant effect on the respiratory tract

Not an irritant.  
Additional information  
not corrosive

#### **Sensitization**

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

#### **Repeated dose toxicity (subacute, subchronic, chronic)**

No information available.

#### **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Carcinogenicity

No indications of human carcinogenicity exist.

Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Reproductive toxicity

No indications of human reproductive toxicity exist.

#### **General remarks**

none

#### **Practical experience/human evidence**

none

#### **Other observations**

none

#### **Other information**

none

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## **SECTION 12: Ecological information**

### **12.1. Toxicity**

There are no data available on the mixture itself.

#### **Ecotoxicity**

Substance:	CAS-No.:	Ecotoxicity
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### **12.2. Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria).

### **12.3. Bioaccumulative potential**

No information available.

### **12.4. Mobility in soil**

No information available.

### **12.5. Results of PBT and vPvB assessment**

This substance does not meet the criteria for classification as PBT or vPvB.

### **12.6. Other adverse effects**

There are no data available on the mixture itself.

#### **Further ecological information**

Do not empty into drains or the aquatic environment. Do not allow to enter into soil/subsoil.

#### **Further details**

none

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal/Product

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

#### Appropriate disposal / Package

Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

#### List of proposed waste codes/waste designations in accordance with EWC

Waste code product: 13 02 04

Waste code packaging: 15 01 10

#### remark

Waste disposal according to official state regulations.

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## SECTION 14: Transport information

### 14.1. UN number

UN No.: -

### 14.2. UN proper shipping name

Official directive for the transport

-

Proper Shipping name

-

### 14.3. Transport hazard class(es)

Hazard label(s): -

Classification code: -

### 14.4. Packing group

Packing group: -

### 14.5. Environmental hazards

Environmental hazards: none

### 14.6. Special precautions for user

Land transport (ADR/RID)

Remark: Not a hazardous material with respect to these transportation regulations.

Transport category: -

Tunnel restriction code: -

Special provisions: -

Limited quantity (LQ): -

Sea transport (IMDG)

Special Provisions: Keep away from food, drink and animal feedingstuffs.



**Remark:** Not a hazardous material with respect to these transportation regulations.

**EmS-No:** -                   **MFAG:** -                   **Marine pollutant:** -

**Special provisions:** -                   **Limited quantity (LQ):** -

**Air transport (ICAO-TI / IATA-DGR)**

**Remark:** Not a hazardous material with respect to these transportation regulations.

**Limited quantity (LQ):** -

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Remark:** none

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**SECTION 15: Regulatory information**

**Labeling**

**Hazardous component(s) for labelling**

-

**Special labelling of particular preparations**

Safety data sheet available for professional user on request.

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

**EU legislation**

**Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).**

none

**Regulation (EC) No 2037/2000 concerning materials, which cause damage to the ozone layer.**

none

**Regulation (EC) No. 648/2004 (Detergents regulation)**

none

**National regulations**

Observe in addition any national regulations!

**Restrictions of occupation**

none

**Storage class**

10 Combustible liquids unless LGK 3A or 3B.

**Water hazard class (WGK)**

1 weak water pollutant (WGK 1)

**Other regulations, restrictions and prohibition regulations**

none

**15.2. Chemical Safety Assessment**

**For this preparation a chemical safety assessment has been carried out:** -

Chemical safety assessments for substances in this mixture were not carried out.

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**SECTION 16: Other information**

**Relevant H- and EUH-phrases (Number and full text)**

**Hazard statements**

-

**Training advice**

none

**Recommended restrictions of use**

refer to chapter 1.

**Further remarks**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Documentation of changes**

none

**Key literature references and sources for data**

Data arise from reference works and literature.

**Abbreviations and acronyms**

none

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