



Version: 1

Revision date: 09.03.2016

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

1.1. Product identifier

Tikalflex Contact 12 / Clear 10

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
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
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

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.

SECTION 3: Composition / information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Mixtures

Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):
Trimethoxyvinylsilan	220-449-8	2768-02-7		01-2119513215-52-0000	3 – 10 %	Flam. Liq. 3, H226 Acute Tox. 4, H332
Polyamide wax	907-495-0	198028-14-7		01211954565-35-0000	1 – 2,5 %	Aquatic Chronic 3, H412
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)-sebacat	255-437-1	41556-26-7			0,1 – 0,25 %	Skin Sens.1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Substance with a common (EC) occupational exposure limit value

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):

(Full text of H- and EUH-phrases: see section 16.)

Additional information

none

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.

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂). Dry extinguishing powder. Foam.
Unsuitable extinguishing media: Water fog. High power water jet. Water.

5.2. Special hazards arising from the substance or mixture

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.

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.

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.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid Paste
Colour: coloured
Odour: characteristic like: hydrocarbons.
Odour threshold: No data available

Safety relevant basis data

	parameter	unit	remark
Density:		1,54 g/cm ³	
Bulk density:			not applicable
pH:			No data available
Melting point/freezing point:			No data available
Initial boiling point and boiling range:		270 °C	
Flash point:		> 100 °C	
Flammability (solid, gas):			No data available
Explosivity:			No data available
Lower explosion limit:			not applicable
Upper explosion limit:			not applicable

Ignition temperature:	420 °C	
Decomposition temperature:		No data available
Oxidizing potential:		No data available
Vapour pressure:		No data available
Vapour density:		No data available
Evaporation rate:		No data available
Water solubility:		insoluble
Fat solubility:		partially soluble
Soluble in:	:	not applicable
Partition coefficient: n-octanol/water:		No data available
Viscosity:		No data available
Solvent separation test:		No data available
Solvent content:	2,34 %	

9.2. Other information

none

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

Carbon monoxide. Carbon dioxide.

Additional information

none

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

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

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.

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

SECTION 15: Regulatory information

Labeling

Hazardous component(s) for labelling

Trimethoxyvinylsilan; Polyamide wax; Bis(1,2,2,6,6-pentamethyl-4-piperidyl)-sebacat

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).

2,34 %

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.

SECTION 16: Other information

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

Hazard statements

- 226 Flammable liquid and vapour.
- 317 May cause an allergic skin reaction.
- 332 Harmful if inhaled.
- 400 Very toxic to aquatic life.
- 410 Very toxic to aquatic life with long lasting effects.
- 412 Harmful to aquatic life with long lasting effects.

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
