

# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1 Revision date: 27.06.2016

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

#### 1.1. Product identifier

# **Tikal Fast Patch Basis**

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

**Telephone:** +49 40 526 30 60 3 Werkstrasse 6 **Telefax:** +49 40 526 30 60 5

D 22844 Norderstedt

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

Tikal Marine Systems GmbH

**Telephone:** +49 40 526 30 60 3

Werkstrasse 6 Telefax: +49 40 526 30 60 5

D 22844 Norderstedt

Information contact

Tikal Marine Systems GmbH Information telephone: +49 40 526 30 60 3

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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 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:

Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319, Aquatic Chronic. 2; H411

## 2.2. Label elements

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

Hazard pictograms:

GHS07, GHS09

Signal word: Warning

**Hazard statements:** 315 Causes skin irritation.

317 May cause an allergic skin reaction.

319 Causes serious eye irritation.

411 Toxic to aquatic life with long lasting effects.

**Precautionary statements:** 102 Keep out of reach of children.

264.1 Wash hands thoroughly after handling.273 Avoid release to the environment.

280 Wear protective gloves/protective clothing/eye protection/face

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protection.

302+352 IF ON SKIN: Wash with plenty of water/.?.

305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

332+313 If skin irritation occurs: Get medical advice/attention.

363 Wash contaminated clothing before reuse.

## 2.3. Other hazards

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

## **SECTION 3: Composition / information on ingredients**

#### 3.1. Substances

## 3.2. Mixtures

Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):
Bisphenol A- epichlorohydrin	500-033-5	25068-38-6	603-074-00-8		10 – 30 %	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic. 2; H411
1,4-bis(2,3 epoxypropoxy)butane	219-371-7	2425-79-8	603-072-00-7		1 – 10 %	Acute Tox. 4; H332 Acute Tox. 4; H312 Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317

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Bisphenol F epoxy resin	28064-14-4		1 – 10 %	Skin Irrit. 2; H315 Skin Sens. 1; H317
				Aquatic Chronic. 2; H411

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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):

(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: Provide fresh air.

In case of irritation of the respiratory tract seek medical advice.

**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 immediately and drink large quantities of water.

Seek medical attention if problems persist.

**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:** Erythema (reddening) Causes skin irritation. **Nature of Hazard:** Irritating to eyes, respiratory system and skin.

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

Notes for the doctor:

**Special treatment:** Treat symptomatically.

## **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media: Water fog.

Carbon dioxide (CO2).

Foam.

Dry extinguishing powder.

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Unsuitable extinguishing media: High power water jet.

# 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire:

Pyrolysis products, toxic.

## 5.3. Advice for firefighters

## **General information**

Extinguishing materials should be selected according to the surrounding area. 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.

Guide people to safety.

Provide adequate ventilation.

# 6.2. Environmental precautions

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

Treat the assimilated material according to the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin and eyes.

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#### **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

Keep away from food, drink and animal feedingstuffs.

Storage class: 10-13

# Further information on storage conditions

none

# 7.3. Specific end use(s)

none

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

# 8.1. Control parameters

occupational exposure limit value

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

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

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

## **DNEL-/PNEC-values**

## **DNEL** value

The state of the s	Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer
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# **PNEC Value**

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

## Risk management measures according to used control banding approach

none

#### Additional information

## 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.

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## 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

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### Respiratory protection

Respiratory protection:

#### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374

## Eye/face protection

Tightly sealed safety glasses.

#### **Body protection**

Suitable protection of the body:

Overall.

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.

## **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
Colour: white
Odour: aromatic
Odour threshold: not determined

Safety relevant basis data

parameter unit remark

**Density:** 1,8 g/cm3

Bulk density:not applicablepH:No data availableMelting point/freezing point:No data availableInitial boiling point and boilingNo data available

range:

Flash point: 147 oC

Flammability (solid, gas): No data available **Explosivity:** No data available Lower explosion limit: No data available **Upper explosion limit:** No data available Ignition temperature: No data available **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: not miscible

Fat solubility:

Soluble in:

No data available mixable with most organic

solvent cleaners

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not determined

Partition coefficient: n-

octanol/water:

Viscosity: viscous

Solvent separation test: not determined Solvent content: not determined

#### 9.2. Other information

none

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

With proper storage and handling the product is stable.

## 10.2. Chemical stability

With proper storage and handling the product is stable.

## 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

heat.

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# 10.5. Incompatible materials

Oxidizing agents, strong. Acid.

# 10.6. Hazardous decomposition products

Contact with acids liberates toxic gas.

#### **Additional information**

none

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### **Acute toxicity**

Substance:	CAS-No.:	Toxicological information
Bisphenol A-	25068-38-6	LD50 oral (rat) 11400 mg/kg
Epichlorhydrin		LD50 dermal (rabbit) > 22800 mg/kg
(Reaktionsprodukte:		
Epoxidharze)		
1,4-bis(2,3	2425-79-8	LD 50 oral (rat) 1130 mg/kg
epoxypropoxy)butan		LD50 dermal (rabbit) 1130 mg/kg
Bisphenol-F-Epoxidharz	28064-14-4	LD50 oral (rat) > 2000 mg/kg
		LD 50 dermal (rat) > 400 mg/kg

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## Specific symptoms in laboratory animals

none

#### Irritation and etching

Irritant effect on the skin irritant.

Irritant effect on the eye irritant.

Irritant effect on the respiratory tract irritant.

Additional information Risk of serious damage to eyes.

## Sensitization

May cause an allergic skin reaction.

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

Danger of cumulative effects.

## 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.

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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
Bisphenol A-	25068-38-6	
epichlorohydrin		
1,4-bis(2,3	2425-79-8	
epoxypropoxy)butane		
Bisphenol F epoxy resin	28064-14-4	

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## 12.2. Persistence and degradability

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

# 12.3. Bioaccumulative potential

Bioaccumulative potential

## 12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater

# 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

Toxic to aquatic life. Toxic to soil organisms.

## **Further ecological information**

Do not empty into drains or the aquatic environment.

Do not allow to enter into soil/subsoil.

#### **Further details**

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none

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## Appropriate disposal/Product

Collect in closed and suitable containers for disposal.

## Appropriate disposal / Package

Handle contaminated packaging in the same way as the substance itself.

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

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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Waste code product: 08 04 99 - Waste

Waste code packaging: 15 01 10 - packaging containing residues of dangerous substances or

contaminated by dangerous substances

#### remark

Waste disposal according to official state regulations.

## **SECTION 14: Transport information**

## **14.1. UN number**

**UN No.:** 3082

## 14.2. UN proper shipping name

#### Official directive for the transport

Environmentally hazardous substance, liquid, n.o.s., fl.p. > 60  $^{\circ}$  (BISPHENOL A-(EPICHLORHYDRIN) (REACTION PRODUCT); 1,4-BIS(2,3-EPOXYPROPOXY) BUTANE)

#### **Proper Shipping name**

Environmentally hazardous substance, liquid, n.o.s., fl.p. > 60 ℃ (BISPHENOL A-(EPICHLORHYDRIN) (REACTION PRODUCT); 1,4-BIS(2,3-EPOXYPROPOXY) BUTANE)

## 14.3. Transport hazard class(es)

Hazard label(s): 9 Classification code: M6

# 14.4. Packing group

Packing group: III

# 14.5. Environmental hazards

**Environmental hazards:** 

## 14.6. Special precautions for user

Land transport (ADR/RID)

Remark:

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Transport category: 3 Tunnel restriction code: E Special provisions: Limited quantity (LQ): 5 L

Sea transport (IMDG) Special Provisions:

Remark:

**EmS-No:** F-A, S-F **MFAG:** Marine pollutant: p Special provisions: Limited quantity (LQ): 5 L

Air transport (ICAO-TI / IATA-DGR)

Remark:

Limited quantity (LQ): 5 L

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

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Remark: none

# **SECTION 15: Regulatory information**

#### Labeling

## Hazardous component(s) for labelling

Bisphenol A- epichlorohydrin; 1,4-bis(2,3 epoxypropoxy)butane; Bisphenol F epoxy resin; Bisphenol A- epichlorohydrin

## 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

10-13

#### Water hazard class (WGK)

2 water pollutant (WGK 2)

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# Other regulations, restrictions and prohibition regulations

none

## 15.2. Chemical Safety Assessment

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

For this substance a chemical safety assessment is not required.

## **SECTION 16: Other information**

# Relevant H- and EUH-phrases (Number and full text) Hazard statements

- 315 Causes skin irritation.
- 317 May cause an allergic skin reaction.
- 319 Causes serious eye irritation.
- 411 Toxic 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.

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## **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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