

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

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

Product identifier

- Trade name: **Xantopren function hardener 1**
- Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the preparation Activator for dental impression material

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Heraeus Kulzer GmbH
Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

Informing department:

Mira Brachtendorf
Tel.: +49 2133 51-8220 / Fax: +49 2133 51-3420
e-mail: mira.brachtendorf@heraeus.com

Emergency telephone number:

Call "Poisoning Emergency Center Berlin": +49 30 30686 790 (24 hours, support in english and german language)

2 Hazards identification

Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20-48/22: Harmful by inhalation. Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R10: Flammable.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

Label elements

Labelling according to EU guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

Code letter and hazard designation of product:



Xn Harmful

N Dangerous for the environment

Hazard-determining components of labelling:

dibutyltin dilaurate
tetraethyl orthosilicate

Risk phrases:

10 Flammable.

(Contd. on page 2)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

Trade name: Xantopren function hardener 1

(Contd. of page 1)

- 20 Harmful by inhalation.
 36/37/38 Irritating to eyes, respiratory system and skin.
 48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

- 9 Keep container in a well-ventilated place.
 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 57 Use appropriate container to avoid environmental contamination.
 60 This material and its container must be disposed of as hazardous waste.

· Other hazards**· Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

- **Description:** Activator for use with condensation curing silicone-based impression materials

· Dangerous components:

CAS: 78-10-4 EINECS: 201-083-8 Reg.nr.: 01-2119496195-28-0003	tetraethyl orthosilicate Xn R20; Xi R36/37 R10	25-50%
CAS: 77-58-7 EINECS: 201-039-8	dibutyltin dilaurate Xn R48/22; Xi R36/38; N R50/53	25-50%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· Description of first aid measures**· General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing** Instantly call for doctor.

· Information for doctor

- **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures

· Extinguishing media

- **Suitable extinguishing agents** CO₂, sand, extinguishing powder. Do not use water.

(Contd. on page 3)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

Trade name: Xantopren function hardener 1

(Contd. of page 2)

- **For safety reasons unsuitable extinguishing agents**
Water.
Water with a full water jet.
- **Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
 - **Protective equipment:** Put on breathing apparatus.
- **Additional information -**

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Do not allow to enter the ground/soil.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
Dispose of contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 8 for information on personal protection equipment.
-

7 Handling and storage

- **Handling**
 - **Precautions for safe handling**
Keep containers tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
 - **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and containers:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with critical values that require monitoring at the workplace:**

78-10-4 tetraethyl orthosilicate

OES ()	Short-term value: 260 mg/m ³ , 30 ppm Long-term value: 87 mg/m ³ , 10 ppm
---------	--

· DNELs

78-10-4 tetraethyl orthosilicate

Dermal	ge.pop., acu., syst.	8.4 mg/Kg/d (human)
--------	----------------------	---------------------

(Contd. on page 4)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

Trade name: Xantopren function hardener 1

(Contd. of page 3)

Inhalative	ge.pop., l.te, syst.	8.4 mg/Kg/d (human)
	worker, acute, syst.	12.1 mg/Kg/d (human)
	worker, l.te., syst.	12.1 mg/Kg/d (human)
	ge.pop., l.te, syst.	25 mg/m3 (human)
	worker, acute, syst.	85 mg/m3 (human)
	worker, l.te., syst.	85 mg/m3 (human)

· PNECs

78-10-4 tetraethyl orthosilicate

freshwater	0.192 mg/l (aqua)
interm. wat. release	10 mg/l (aqua)
marine water	0.0192 mg/l (aqua)
sedim., dw, fre.wat.	0.18 mg/Kg (sediment)
soil,dw	0.05 mg/Kg (soil)

· Exposure controls

· Personal protective equipment

· General protective and hygienic measures

Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.

· Breathing equipment:

Not necessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

· Protection of hands:

Solvent resistant gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Natural rubber, NR
Chloroprene rubber, CR

· Eye protection: Safety glasses

· Body protection: Light weight protective clothing

GB

(Contd. on page 5)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

Trade name: **Xantopren function hardener 1**

(Contd. of page 4)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

- Form: Fluid
- Colour: Light red
- Smell: Aromatic

· Change in condition

- Melting point/Melting range: Not determined
- Boiling point/Boiling range: 170 °C

- Flash point: 36 °C

- Ignition temperature: 265 °C

- Self-inflammability: Product is not selfigniting.

- Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures is possible.

- Steam pressure at 20 °C: 10 hPa

- Density at 20 °C 0.974 g/cm³

· Solubility in / Miscibility with

- Water: Not miscible or difficult to mix

- Other information No further relevant information available.

10 Stability and reactivity

· Reactivity

· Chemical stability

- Conditions to be avoided: No decomposition if used and stored according to specifications.

- Possibility of hazardous reactions No dangerous reactions known

- Conditions to avoid No further relevant information available.

- Incompatible materials: No further relevant information available.

- Hazardous decomposition products: None

- Additional information: -

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	(rat)
------	------	-------

78-10-4 tetraethyl orthosilicate

Oral	LD50	6270 mg/kg (rat)
------	------	------------------

Dermal	LD50	5878 mg/kg (can)
--------	------	------------------

· Primary irritant effect:

- on the skin: Irritant for skin and mucous membranes.
- on the eye: Irritant effect.

- Sensitization: No sensitizing effect known.

· Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

(Contd. on page 6)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

Trade name: Xantopren function hardener 1

Irritant

(Contd. of page 5)

12 Ecological information

· Toxicity

· Aquatic toxicity:

78-10-4 tetraethyl orthosilicate

EC50/48h >844 mg/l (daphnia)

· **Persistence and degradability** No further relevant information available.

· **Behaviour in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue**

18 01 06 chemicals consisting of or containing dangerous substances

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**

· **ADR, IMDG, IATA**

UN1993

· **UN proper shipping name**

· **ADR**

1993 FLAMMABLE LIQUID, N.O.S., special provision 640E (TETRAETHYL SILICATE, dibutyltin dilaurate)

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, dibutyltin dilaurate), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, dibutyltin dilaurate)

(Contd. on page 7)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

Trade name: Xantopren function hardener 1

(Contd. of page 6)

· Transport hazard class(es)
· ADR

· Class

3 (F1) Flammable liquids.

· Label

3

· IMDG

· Class

3 Flammable liquids.

· Label

3

· IATA

· Class

3 Flammable liquids.

· Label

3

· Packing group
· ADR, IMDG, IATA

III

· Environmental hazards:
· Marine pollutant:

Yes

· Special marking (ADR):

Symbol (fish and tree)

Symbol (fish and tree)

· Special precautions for user

Warning: Flammable liquids.

· Kemler Number:

30

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

-

· ADR
· Limited quantities (LQ)

5L

· Transport category

3

· Tunnel restriction code

D/E

15 Regulatory information
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 8)

GB

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 06.12.2012

Revision: 06.12.2012

Trade name: Xantopren function hardener 1

(Contd. of page 7)

· **Relevant phrases**

R10 Flammable.

R20 Harmful by inhalation.

R36/37 Irritating to eyes and respiratory system.

R36/38 Irritating to eyes and skin.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Contact:**

Dr. Thiele Tel.: (+49) 6181 35-3012

email: ruediger.thiele@heraeus.com

· * **Data compared to the previous version altered.**

GB

Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

1 Identification

· Product identifier

- **Trade name:** **Xantopren function hardener 2**
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** Activator for dental impression material

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Heraeus Kulzer GmbH
Grüner Weg 11, D-63450 Hanau

Tel.: 0800 4372522

· Information department:

USA:
Marc Henn
Tel. +1 (574) 2995444 / Fax: +1 (574) 2912542
e-mail: marc.henn@kulzer-dental.com

· Emergency telephone number:

Call "Poisoning Emergency Center Berlin": +49 30 30686 790 (24 hours, support in english and german language)

2 Hazard(s) identification

· Classification of the substance or mixture

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Xi; Irritant

R36/38: Irritating to eyes and skin.

N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

· Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

· Code letter and hazard designation of product:



Xn Harmful

N Dangerous for the environment

· Hazard-determining components of labeling:

dibutyltin dilaurate

· Risk phrases:

36/38 Irritating to eyes and skin.

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

(Contd. on page 2)

USA

Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: **Xantopren function hardener 2**

(Contd. of page 1)

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety phrases:

- 23 Do not breathe gas/fumes/vapour/spray.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 57 Use appropriate container to avoid environmental contamination.
- 60 This material and its container must be disposed of as hazardous waste.

Classification system

NFPA ratings for USA (scale 0-4)



Health = 1
Fire = 1
Reactivity = 0

HMIS-Ratings (Scale 0-4)



Health = *1
Fire = 1
Reactivity = 0

Other hazards -

3 Composition/information on ingredients

Chemical characterization: Mixtures

- Description: Activator for use with condensation curing silicone-based impression materials

Dangerous components:

77-58-7 dibutyltin dilaurate	Xn R48/22; Xi R36/38; N R50/53	25-50%
------------------------------	--------------------------------	--------

- Additional information For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

Description of first aid measures

- After skin contact Immediately wash with water and soap and rinse thoroughly.
- After eye contact
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing
Rinse out mouth and then drink plenty of water.
Seek immediate medical advice.
- Information for doctor
 - Most important symptoms and effects, both acute and delayed
No further relevant information available.
 - Indication of any immediate medical attention and special treatment needed
No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.

(Contd. on page 3)

USA

Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: Xantopren function hardener 2

(Contd. of page 2)

- **Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
 - **Protective equipment:** No special measures required.
- **Additional information -**

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).
Dispose contaminated material as waste according to item 13.
Send for recovery or disposal in suitable receptacles.
- **Reference to other sections**
See Section 13 for disposal information.
See Section 8 for information on personal protection equipment.
-

7 Handling and storage

- **Handling**
 - **Precautions for safe handling**
Keep receptacles tightly sealed.
Ensure good ventilation/exhaustion at the workplace.
 - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage**
 - **Requirements to be met by storerooms and receptacles:** No special requirements.
 - **Information about storage in one common storage facility:** Not required.
 - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
 - **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
 - **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
 - **Personal protective equipment**
 - **General protective and hygienic measures**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
 - **Breathing equipment:** Not required.

(Contd. on page 4)

USA

Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: **Xantopren function hardener 2**

(Contd. of page 3)

Protection of hands:

Solvent resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Natural rubber, NR

Chloroprene rubber, CR

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

PVC or PE gloves

Eye protection: Safety glasses

Body protection: Light weight protective clothing

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:

Fluid

Color:

Yellow

Odor:

Aromatic

Change in condition

Melting point/Melting range: undetermined

Boiling point/Boiling range: 270 °C (518 °F)

Flash point: 146 °C (295 °F)

Auto igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Density at 20 °C (68 °F): 0.900 g/cm³ (7.511 lbs/gal)

Solubility in / Miscibility with

Water:

Not miscible or difficult to mix

Other information

No further relevant information available.

10 Stability and reactivity

Possibility of hazardous reactions No dangerous reactions known

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: none

(Contd. on page 5)

USA

Safety Data Sheet acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: **Xantopren function hardener 2**

· Additional information: -

(Contd. of page 4)

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral	LD50	4735 mg/kg (rat)
------	------	------------------

· Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.

- on the eye: Irritating effect.

- Sensitization: No sensitizing effects known.

- Additional toxicological information: Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.

- Persistence and degradability: No further relevant information available.

· Behavior in environmental systems:

- Bioaccumulative potential: No further relevant information available.

- Mobility in soil: No further relevant information available.

· Ecotoxicological effects:

- Remark: Very toxic for fish

· Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

- Other adverse effects: No further relevant information available.

13 Disposal considerations

· Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

- Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT

UN3082

(Contd. on page 6)

USA





Safety Data Sheet
acc. to OSHA HCS

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: Xantopren function hardener 2

(Contd. of page 5)

· ADR, IMDG, IATA	3082
· UN proper shipping name	2788 ORGANOTIN COMPOUND, LIQUID, N.O.S.
· ADR	(dibutyltin dilaurate)
· IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate)
· Transport hazard class(es)	
· DOT, IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· ADR	
	
· Class	9 (M6) Miscellaneous dangerous substances and articles
· Label	9
· Packing group	
· DOT, ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Yes
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· Danger code (Kemler):	90
· EMS Number:	F-A, S-A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	-
· DOT	
· Remarks:	Special marking with the symbol (fish and tree).

15 Regulatory information

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

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

(Contd. on page 7)

USA

**Safety Data Sheet
acc. to OSHA HCS**

Printing date 07/15/2013

Reviewed on 07/12/2013

Trade name: Xantopren function hardener 2

(Contd. of page 6)

· Cancerogenity categories

· TLV (Threshold Limit Value established by ACGIH)	
77-58-7 dibutyltin dilaurate	A4
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

R36/38 Irritating to eyes and skin.

R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

· **Department issuing MSDS:** Safety department

· Contact:

Dr. Thiele Tel.: (+49) 6181 35-3012

email: ruediger.thiele@heraeus.com

· *** Data compared to the previous version altered.**

USA