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

- **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 mixture** Activator for dental impression material

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Heraeus Kulzer Australia Pty Ltd
    - Unit 32
    - 11 – 21 Underwood Rd
    - HOMEBUSHE NSW 2140
    - Australia
  - **Tel:** +61 (0) 2 9764 5222
  - **Informing department:** see above
  - **Emergency telephone number:** Emergency contact number: 13 11 26 (24 hours)

2 Hazards identification

- **Classification of the substance or mixture**
  - Skin Irrit. 2  H315 Causes skin irritation.
  - Eye Irrit. 2  H319 Causes serious eye irritation.
  - STOT RE 2  H373 May cause damage to organs through prolonged or repeated exposure.

- **Label elements**
  - **GHS label elements**
    - The product is classified and labelled according to the Globally Harmonised System (GHS).
  - **Hazard pictograms**
    - GHS07
    - GHS08

- **Signal word** Warning

- **Hazard-determining components of labelling:**
  - dibutyltin dilaurate

- **Hazard statements**
  - Causes skin irritation.
  - Causes serious eye irritation.
  - May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  - Do not breathe dust/fume/gas/mist/vapours/spray.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Specific treatment (see on this label).
  - If skin irritation occurs: Get medical advice/attention.
Trade name: Xantopren function hardener 2

If eye irritation persists: Get medical advice/attention.

- Other hazards -
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.

## 3 Composition/information on ingredients

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

- **Dangerous components:**
  - CAS: 77-58-7 dibutyltin dilaurate
  - EINECS: 201-039-8
  - STOT RE 2, H373; Skin Irrit. 2, H315; Eye Irrit. 2, H319
  - 25-50%

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

## 4 First aid measures

- **Description of first aid measures**
  - **After skin contact** Instantly wash with water and soap and rinse thoroughly.
  - **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
  - **After swallowing** Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor. 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 Firefighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents** CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
  - Use fire fighting measures that suit the environment.

- **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.

(Contd. on page 3)
Trade name: Xantopren function hardener 2

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: No special measures required.

- 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:
    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 compilation were used as basis.

- 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 required.
    - Protection of hands:
      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
      Solvent resistant gloves
Check protective gloves prior to each use for their proper condition.

**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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
- Butyl rubber, BR
- Nitrile rubber, NBR

**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
  - Colour: Yellow
- **Smell:** Aromatic
- **Odour threshold:** Not determined.

**pH-value:** Not determined.

**Change in condition**
- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** 270 °C

**Flash point:** 146 °C

**Inflammability (solid, gaseous)** Not applicable.

**Ignition temperature:**

**Decomposition temperature:** Not determined.

**Self-inflammability:** Product is not selfigniting.

**Danger of explosion:** Product is not explosive.

**Critical values for explosion:**
- **Lower:** Not determined.
- **Upper:** Not determined.

**Steam pressure:** Not determined.

**Density at 20 °C**
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
Trade name: Xantopren function hardener 2

- Evaporation rate: Not determined.
- Solubility in / Miscibility with: Not miscible or difficult to mix
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - dynamic: Not determined.
  - kinematic: Not determined.
- Other information: No further relevant information available.

**10 Stability and reactivity**

- Reactivity: No further relevant information available.
- 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: None
- 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 4735 mg/kg (rat)
    - 110-27-0 isopropyl myristate
      - Oral LD50 >10000 mg/kg (rat)
      - Dermal LD50 >5000 mg/kg (rabbit)
  - Primary irritant effect:
    - Skin corrosion/irritation: Irritant for skin and mucous membranes.
    - Serious eye damage/irritation: Irritant effect.
  - Respiratory or skin sensitisation: No sensitizing effect known.
- Additional toxicological information: Irritant

**12 Ecological information**

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behaviour in environmental systems:
    - Bioaccumulative potential: Not determined.
    - Mobility in soil: Not determined.
Trade name: Xantopren function hardener 2

- Ecotoxical effects:
  - Remark: Very toxic for fish
- 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.
    Also poisonous for fish and plankton in water bodies.
    Very toxic for aquatic organisms
- 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.
- Uncleaned packagings:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - ADG, IMDG, IATA 3082
- UN proper shipping name
  - ADG 2788 ORGANOTIN COMPOUND, LIQUID, N.O.S. (dibutyltin dilaurate)
  - IMDG, IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate)
- Transport hazard class(es)
  - ADG 9 (M6) Miscellaneous dangerous substances and articles.
Trade name: Xantopren function hardener 2

- Label
  - IMDG, IATA

- Class
  - 9 Miscellaneous dangerous substances and articles.

- Label
  - 9

- Packing group
  - ADG, IMDG, IATA
  - III

- Environmental hazards:
  - Marine pollutant: Yes
    - Symbol (fish and tree)
  - Special marking (ADG):
    - Symbol (fish and tree)
  - Special marking (IATA):
    - Symbol (fish and tree)

- Special precautions for user
  - Warning: Miscellaneous dangerous substances and articles.
    - Kemler Number: 90
    - EMS Number: F-A,S-A

- Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.

- Transport/Additional information:
  - -

- UN "Model Regulation": UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (dibutyltin dilaurate), 9, III

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - GHS label elements
    - The product is classified and labelled according to the Globally Harmonised System (GHS).
      - Hazard pictograms
        - GHS07  GHS08
  - Signal word Warning
  - Hazard-determining components of labelling:
    - dibutyltin dilaurate
  - Hazard statements
    - Causes skin irritation.
Trade name: Xantopren function hardener 2

Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.

- **Precautionary statements**
  - Do not breathe dust/fume/gas/mist/vapours/spray.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Specific treatment (see on this label).
  - If skin irritation occurs: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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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**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H373 May cause damage to organs through prolonged or repeated exposure.

- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

- * Data compared to the previous version altered.