

according to UK REACH Regulation

### e-shell 3002, e-shell 3003

Revision date: 17.01.2022 Product code: 15007XX Page 1 of 8

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

### 1.1. Product identifier

e-shell 3002, e-shell 3003

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

### Use of the substance/mixture

light curing resin for hearing aid devices

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

Company name: DeltaMed GmbH
Street: Raiffeisenstr. 8a
Place: 61169 Friedberg (GER)

Telephone: +49 6031 7283-0 Telefax: +49 6031 7283-29

e-mail: info@deltamed.de Internet: www.deltamed.de

Responsible Department: F&E

Telefax +49 6031 7283-29

1.4. Emergency telephone Giftinformationszentrum Universitätsklinikum Mainz

**number:** Telefon +49 6131 19240

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# **GB CLP Regulation**

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1B

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

# 2.2. Label elements

## **GB CLP Regulation**

### Hazard components for labelling

tricyclodecan dimethanol diacrylate (TCDDMDA)
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)

Signal word: Warning

Pictograms:



# **Hazard statements**

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection.
P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local regulation.

#### Special labelling of certain mixtures

Restricted to professional users.



according to UK REACH Regulation

# e-shell 3002, e-shell 3003

Revision date: 17.01.2022 Product code: 15007XX Page 2 of 8

# 2.3. Other hazards

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

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

### 3.2. Mixtures

# **Chemical characterization**

Mixture of acrylic resins, fillers and initiators.

#### **Hazardous components**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	GHS Classification				
	Acrylic resin				
	Aquatic Chronic 4; H413				
42594-17-2	tricyclodecan dimethanol diacrylate (TCDDMDA)				
	Skin Sens. 1B, Aquatic Chronic 2; H317 H411				
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)				
	278-355-8	015-203-00-X			
	Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361f H317 H411				

Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name			
	Specific Conc. Limits, M-factors and ATE				
42594-17-2		tricyclodecan dimethanol diacrylate (TCDDMDA)	10 - 30 %		
	dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg				
75980-60-8	278-355-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)	< 1 %		
	oral: LD50 = > 5000 mg/kg				

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

### **General information**

Get medical advice/attention if you feel unwell. Immediately remove any contaminated clothing, shoes or stockings.

## After inhalation

Get medical advice/attention if you feel unwell. Provide fresh air.

# After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. If skin irritation occurs: Get medical advice/attention.

### After contact with eyes

After eye contact: Rinse immediately carefully and thoroughly with eye-bath or water.

If eye irritation persists: Get medical advice/attention.

# After ingestion

Do NOT induce vomiting. Medical treatment necessary.

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

No information available.

DeltaMed GmbH



# **Safety Data Sheet**

according to UK REACH Regulation

### e-shell 3002, e-shell 3003

Revision date: 17.01.2022 Product code: 15007XX Page 3 of 8

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

### Suitable extinguishing media

Foam. Extinguishing powder Carbon dioxide

### Unsuitable extinguishing media

Full water jet

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

In case of fire may be liberated: Carbon monoxide Carbon dioxide Hazardous decomposition products

### 5.3. Advice for firefighters

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

#### Additional information

Suppress gases/vapours/mists with water spray jet. 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

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### Other information

Larger quantities: Take up mechanically (by pumping). Smaller quantities and/or residues: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in 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

# Advice on safe handling

Do not breathe gas/fumes/vapour/spray.

Provide fresh air.

## Advice on protection against fire and explosion

In the event of fire, cool the endangered containers with water. Keep away from sources of ignition --- No smoking. Take precautionary measures against static discharges. When heated above the flash point and/or during spraying (atomizing), ignitible mixtures may form in air.

## Advice on general occupational hygiene

It is essential for pregnant women to avoid inhaling the product and not to let it come in contact with the skin. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

# 7.2. Conditions for safe storage, including any incompatibilities



according to UK REACH Regulation

## e-shell 3002, e-shell 3003

Revision date: 17.01.2022 Product code: 15007XX Page 4 of 8

### Requirements for storage rooms and vessels

Protect from the action of light. Keep only in the original container at a temperature between 5 -30 °C. Can polymerize with intense heat release. Keep container tightly closed.

### Hints on joint storage

No special measures are necessary.

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

### 8.1. Control parameters

# 8.2. Exposure controls

## Appropriate engineering controls

Do not breathe gas/fumes/vapour/spray.

### Individual protection measures, such as personal protective equipment

### Eye/face protection

Eye glasses with side protection

## Hand protection

butyl rubber gloves (0.7 mm), Break through time ca. 60 min (EN 374). Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

#### Skin protection

Wear suitable protective clothing.

### Respiratory protection

Breathing apparatus in case of high concentrations, short term: filter appliance, filter A In case of inadequate ventilation wear respiratory protection.

## **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Colour: various, depending on coloration

Odour: No data available

# Changes in the physical state

Melting point/freezing point:

Boiling point or initial boiling point and

> 100 °C

boiling range:

Flash point: > 100 °C

**Flammability** 

Solid/liquid: not applicable
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Self-ignition temperature

Solid: not applicable
Gas: not applicable
Decomposition temperature: not determined
pH-Value: not determined
Viscosity / dynamic: 800 - 2000 mPa·s
(at 20 °C)



according to UK REACH Regulation

### e-shell 3002, e-shell 3003

Revision date: 17.01.2022 Product code: 15007XX Page 5 of 8

Water solubility:

The study does not need to be conducted because the substance is known to be

insoluble in water.

# Solubility in other solvents

The substance is not soluble in water.

Partition coefficient n-octanol/water:

Vapour pressure:

Density (at 20 °C):

Relative vapour density:

not determined

1,3 g/cm³

not determined

### 9.2. Other information

#### Other safety characteristics

Solid content: not determined Evaporation rate: not determined

#### **Further Information**

The product has not been tested. The statement is derived from the properties of the single components.

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

# 10.4. Conditions to avoid

Protect from the action of light. Keep only in the original container at a temperature between 5 -30 °C. Can polymerize with intense heat release.

# 10.5. Incompatible materials

Oxidising agent, Reducing agent, Heavy metals, Acids, Alkali (Iye)

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

# **Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
42594-17-2	tricyclodecan dimethanol diacrylate (TCDDMDA)				
	oral	LD50 > 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rat		
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)				
	oral	LD50 > 5000 mg/kg	Rat	RTECS	



according to UK REACH Regulation

### e-shell 3002, e-shell 3003

Revision date: 17.01.2022 Product code: 15007XX Page 6 of 8

### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction. (tricyclodecan dimethanol diacrylate (TCDDMDA);

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO))

May cause sensitization by skin contact.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

### **Further information**

The product has not been tested. The statement is derived from the properties of the single components.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

Aquatic toxicity: The classification criteria for this hazard class are not met by definition.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
42594-17-2	tricyclodecan dimethanol diacrylate (TCDDMDA)						
	Acute fish toxicity	LC50 mg/l	4,95	96 h			
	Acute algae toxicity	ErC50	1,6 mg/l	72 h	Pseudokirchneriella subcapitata	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	2,36	l .	Daphnia magna (Big water flea)	OECD 202	
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (TPO)						
	Acute crustacea toxicity	EC50 mg/l	3,53	48 h	Daphnia		

# 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

# 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The product has not been tested.

# 12.7. Other adverse effects

No information available.

# **Further information**

Do not allow uncontrolled discharge of product into the environment. Do not allow to enter into surface water or drains.

DeltaMed GmbH



# **Safety Data Sheet**

according to UK REACH Regulation

### e-shell 3002, e-shell 3003

Revision date: 17.01.2022 Product code: 15007XX Page 7 of 8

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic

rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

### List of Wastes Code - used product

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic

rubber and man-made fibres; other still bottoms and reaction residues; hazardous waste

#### List of Wastes Code - contaminated packaging

070208 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic

rubber and man-made fibres: other still bottoms and reaction residues: hazardous waste

### Contaminated packaging

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

### Other applicable information (land transport)

No dangerous good in sense of these transport regulations.

### Inland waterways transport (ADN)

# Other applicable information (inland waterways transport)

No dangerous good in sense of these transport regulations.

# Marine transport (IMDG)

# Other applicable information (marine transport)

No dangerous good in sense of these transport regulations.

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

## Other applicable information (air transport)

No dangerous good in sense of these transport regulations.

## 14.6. Special precautions for user

No information available.

# 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### **SECTION 15: Regulatory information**

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

# **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

# National regulatory information

Water hazard class (D):

### 15.2. Chemical safety assessment

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



according to UK REACH Regulation

## e-shell 3002, e-shell 3003

Product code: 15007XX Revision date: 17.01.2022 Page 8 of 8

### **SECTION 16: Other information**

#### Changes

SECTION 9: Physical and chemical properties: Boiling point or initial boiling point and boiling range

#### 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

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### Relevant H and EUH statements (number and full text)

H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effect

May cause long lasting harmful effects to aquatic life. H413

### **Further Information**

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.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)