

# Safety Data Sheet

## Condensation silicone



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

1.1. Item description: RESIFLO ART. Nr 381-0003

1.2 Relevant identified uses of the substance or mixture and uses that are not recommended:

RESIFLO is used for modeling inlays, onlays, crowns, abutments, for fixing soldered joints and for the fabrication of core build-ups.

Manufacturer: Dentify GmbH  
Scheffelstr. 22  
78234 Engen / Germany

Information: Tel: + 49-7733-977 62 40, Fax: +49-7733-977 62 44  
(Mo – Do 8:00 – 16:30, Fr 8:00 – 15:00)

Emergency: Tel: + 49-7733-977 62 40  
(Mo – Do 8:00 – 16:30, Fr 8:00 – 15:00)

### 2. Possible hazards

#### 2.1 Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

Hazard categories:

Serious eye damage/eye irritation: Eye damage 1

Respiratory or skin sensitization: Sens. Skin 1

Hazardous to the aquatic environment: Aqu. chron. 2

Hazard statements:

Causes serious eye damage.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

#### 2.2 Labeling information

**Regulation (EC) No. 1272/2008**

Hazard-determining components of labeling

Neopentyl glycol propoxylate Diacrylate

Aliphatic urethane acrylate

Acrylated urethane/acrylate monomer mixture

2,4,6-Trimethyl-benzoyl-diphenylphosphine oxide

Signal word: Danger

Pictograms:



#### Hazard statements

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

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## Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapor/aerosol.

P272 Do not wear contaminated work clothing outside the workplace.

P273 Prevent environmental release.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove any contact lenses if possible. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P391 Collect spilled material.

## Special labeling of certain mixtures

15 - < 20 percent of the mixture consists of one or more components of unknown acute toxicity (inhalation).

Contains 1 - < 5 % components of unknown hazards to the aquatic environment

## 2.3 Other hazards

There is no information available

## 3. Composition/information on components

### 3.2 Mixtures

Chemical characterization

multifunctional methacrylates, photoinitiators for blue and UV light spectrum

### Hazardous ingredients

CAS No. Designation Proportion

EC No. Index No. REACH No.

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

84170-74-1 neopentyl glycol propoxylate diacrylate 35 - < 40 %

Skin Sens. 1, Aquatic Chronic 2; H317 H411

Aliphatic urethane acrylate 15 - < 20 %

Skin Sens. 1B; H317

Acrylated urethane/acrylate monomer mixture 1 - < 5 %

Acute Tox.4, Eye Dam. 1, Skin Sens.1, Aquatic  
Chronic 2; H302 H318 H317 H411

75980-60-8 8 2,4,6-Trimethyl-benzoyl-diphenylphosphine oxide < 1 %

278-355-8

Repr. 2, Skin Sens. 1, Aquatic Chronic 2; H361f H317 H411

21245-02-3 2-ethylhexyl p-dimethylaminobenzoate < 0,1 %

244-289-3 01-2120766649-35

Repr. 1B, Aquatic Acute 1 (M-Factor = 10); H360 H400

Wording of H- and EUH-phrases: see section 16.

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### 4. First aid measures

#### 4.1 First aid measures description

##### **After inhalation**

Supply fresh air. In all cases of uncertainty or if symptoms are present, seek medical advice.

##### **After skin contact**

In case of contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Remove all contaminated clothing immediately and wash before reuse. Medical treatment necessary

##### **After eye contact**

In case of contact with eyes, rinse immediately with running water for 10 to 15 minutes holding eyelids apart and consulting an ophthalmologist.

##### **After swallowing**

Rinse mouth immediately and drink plenty of water

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

No information available.

#### 4.3 Advice for immediate medical attention or special treatment

Symptomatic treatment.

### 5. Fire-fighting measures

#### 5.1 Extinguishing agents

Suitable extinguishing agents  
Adapt extinguishing measures to the environment.

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

Not flammable

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and chemical protective suit. Full protective suit

#### **Additional information**

Suppress gases/vapors/mist with water spray. Collect contaminated extinguishing water separately. Do not allow to enter drains or waterways.

### 6. Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Do not breathe gas/fume/vapor/aerosol. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

#### 6.2 Environmental precautions

Do not allow to enter drains or waterways.

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

Pick up mechanically. Treat the collected material according to section Disposal.

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protective equipment: see section 8

Disposal: see section 13

## 7. Handling and storage

### 7.1 Protective measures for safe handling

#### Instructions for safe handling

For open handling, use equipment with local exhaust ventilation. Avoid dust formation. Do not inhale dust

#### Advice on fire and explosion protection.

No special fire protection measures required.

### 7.2 Conditions for safe storage taking into account incompatibilities

#### Requirements for storage rooms and containers

Keep container tightly closed. Store under lock and key. Store in a place accessible only to authorized people. Ensure adequate ventilation and point extraction at critical points

#### Storage instructions

No special precautions required.

Storage class according to TRGS 510: 11 (Combustible solids that cannot be assigned to any of the above-mentioned LGK)

### 7.3 Specific end uses

RESIFLO is used for modeling inlays, onlays, crowns, abutments, for fixing soldered joints and for producing core build-ups.

## 8. Exposure limitation and control/personal protective equipment

### 8.1 Parameters to be monitored

#### DNEL/DMEL values

CAS No	Description	Route of exposure	Effect	Value
DNEL	Type			
21245-02-3	Ethylhexyl-p-dimethylaminobenzoat			
Worker DNEL,	long-term inhalative		systemic	0,5 mg/m <sup>3</sup>
Worker DNEL,	long-term dermal		systemic	6.7 mg/kg bw/d

#### PNEC values

##### CAS No Description

Environmental compartment	Value
21245-02-3 2-Ethylhexyl-p-dimethylaminobenzoat	
Fresh water	0 mg/l
Fresh water (intermittent release)	0 mg/l
Seawater	0 mg/l
Freshwater sediment	0.042 mg/kg
Freshwater sediment	0.004 mg/kg
Microorganisms in wastewater treatment plants	100 mg/l
Soil	0.008 mg/kg

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### Additional information on limit values

No national limit values have been set to date

### 8.2 Limiting and monitoring exposure

#### Suitable technical control equipment

For open handling, use equipment with local exhaust ventilation. Do not inhale gas/fume/vapor/aerosol.

#### Protective and hygienic measures

Remove soiled, soaked clothing immediately. Draw up and follow a skin protection plan! Wash hands and face thoroughly before breaks and at the end of work, shower if necessary. Do not eat or drink while working.

#### Eye/face protection

Suitable eye protection: basket glasses.

#### Hand protection

When handling chemical substances, only chemical protective gloves with a CE mark including a four-digit test number may be worn. The design of chemical protective gloves must be selected specifically for the workplace depending on the concentration and quantity of hazardous substances. It is recommended to clarify the chemical resistance of the above-mentioned protective gloves for special applications with the glove manufacturer

#### Body protection

Wear suitable protective clothing during work

#### Respiratory protection

Wear respiratory protection in case of insufficient ventilation.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	solid paste
Color:	blue
Odor:	characteristic
pH value:	not determined

#### State changes

Melting point:	not determined
Initial boiling point and boiling range:	100 °C
Flash point:	162 °C

#### Flammability

Solid:	not determined
Gas:	not applicable

#### Explosion hazards

none	
Lower explosion limit:	not determined
Upper explosion limit:	not determined

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## Auto-ignition temperature

Solid: not determined  
Gas: not applicable  
Decomposition temperature: not determined

## Oxidizing properties

Not oxidizing.

Vapor pressure: <0.13 hPa  
(at 20°C)

Density: 1.09 g/cm<sup>3</sup>

Water solubility: No testing required as the substance is known to be insoluble in water

## Solubility in other solvents

not determined

Partition coefficient: not determined

Vapor density: not determined

Evaporation rate: not determined

## 9.2 Other information

**Solids content:** not determined

## 10. Stability and reactivity

### 10.1 Reactivity

No hazardous reactions will occur if handled and stored as directed.

### 10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

none/none

### 10.5 Incompatible materials

No information available

### 10.6 Hazardous decomposition products

There are no known hazardous decomposition products

## 11. Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

CAS	No Description		
	Route of exposure	Dose	Species
	Aliphatic urethane acrylate Oral	LD50 >2000 mg/kg	Rat

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Dermal  
Inhalative

LD50 >2000 mg/kg  
Lack of data

Rabbit

## Acrylated urethane/acrylate monomer mixture

Oral  
Dermal  
inhalative (4 h) vapor

LD50 1350 mg/kg  
LD50 >2000 mg/kg  
LC50 21 mg/l

rat  
rabbit  
rat

75980-60-8

2,4,6-Trimethyl-benzoyl-diphenylphosphinoxid

Oral  
Inhalative

LD50 >5000 mg/kg  
Lack of data

rat

21245-02-3

2-Ethylhexyl-p-dimethylaminobenzoat

oral  
dermal

LD50 14900 mg/kg  
LD50 >2000 mg/kg

rat  
rat

## Other test information

The mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

## 12. Environmental information

### 12.1 Toxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS No.	Designation	Aquatic toxicity	Dose	[h][d]	Species	Source
		Acrylated urethane/acrylate monomer mixture				
		Aquatic toxicity	Lack of data			
75980-60-8	2,4,6-Trimethyl-benzoyl-diphenylphosphinoxid					
		Acute fish toxicity	LC50 6,53 mg/l	96 h	Oryzias latipes	OECD 201
		Acute algal toxicity	ErC50 2.01 mg/l	72 h	Pseudokirchneriella	Subcapitata
		Acute crustacean toxicity	EC50 3.53 mg/l	48 h	Daphnia magna	OECD Guideline 202
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoat					
		Acute fish toxicity	LC50 0.235 mg/l	96 h	Manufacturer	
		Acute algal toxicity	ErC50 >0.015 mg/l	72 h	Pseudokirchneriella	Subcapitata
		Acute crustacean toxicity	EC50 >0.031 mg/l	48 h	Daphnia magna	
		Acute bacteriotoxicity (>1000 mg/l)		3 h		

### 12.2 Persistence and degradability

The product has not been tested.

### 12.3 Bioaccumulative potential

The product has not been tested

Partition coefficient n-octanol/water

CAS No.	Designation	Log Pow
75980-60-8	2,4,6-Trimethyl-benzoyl-diphenylphosphinoxid	3,257
21245-02-3	2-Ethylhexyl-p-dimethylaminobenzoate	>6.2

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### 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.

### 12.6 Other adverse effects

No information available

### Further information

Do not allow to enter drains or waterways. Do not allow to enter the subsoil/soil.

## 13. Notes on disposal

### Recommendation

Do not allow to enter drains or waterways. Do not allow to enter the subsoil/soil. Dispose of it in accordance with official regulations.

Disposal of uncleaned packaging and recommended cleaning agents

Non-contaminated and completely emptied packaging can be recycled. Contaminated packaging must be treated in the same way as the substance.

## 14. Transport details

**14.1 UN number or ID number**  
ADR, ADN, IMDG, IATA

Void

**14.2 UN proper shipping name**  
ADR, ADN, IMDG, IATA

Void

**14.3 Transport hazard class(es)**  
ADR, ADN, IMDG, IATA  
Class

Void.

**14.4 Packing group**

ADR, IMDG, IATA

Void.

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for the user**

No information available

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
not applicable

## 15. Legal regulations

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

### EU regulations

Information on the IE Directive 2010/75/EU  
(VOC):

22.447 % (244.672 g/l)



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Information on the VOC Directive

58.059 % (632.843 g/l)

2004/42/EC:

Information on the SEVESO III Directive  
environment

E2 Hazardous to the aquatic

2012/18/EU:

### National regulations

Employment restriction:

Observe employment restrictions for  
young people (§ 22 JArbSchG).

Water hazard class:

2 - clearly hazardous to water

Status:

Mixture rule according to Annex 1 No.  
5 AwSV

Skin absorption/sensitization:

Triggers hypersensitivity reactions of  
an allergic nature

### 15.2 Chemical safety assessment

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

### 16. Other disclosures

Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
(Accord européen sur le transport des marchandises dangereuses par Route)

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Dangerous Goods Code

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 Abstraction Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%.

**Classification of mixtures and assessment method used according to Regulation (EC) No 1272/2008 [CLP].**

**Classification**

**Eye Dam. 1; H318**

**Skin Sens. 1; H317**

**Aquatic Chronic 2; H411**

**Classification method**

**Calculation method**

**Calculation method**

**Calculation method**

### Wording of H- and EUH-phrases (number and full text)

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H360 May damage fertility or the unborn child.

H361f Suspected of damaging fertility.

H400 Very toxic to aquatic organisms.

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H411 Toxic to aquatic life with long lasting effects

### Further information

The information is based on our current state of knowledge but does not constitute a guarantee of product properties and does not establish a contractual legal relationship. The recipient of our products is responsible for observing existing laws and regulations.