Printing date 16.09.2022

Version number 6 (*replaces version* 5)

Revision: 16.09.2022

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

· 1.1 Product identifier

- Trade name: Dyract flow
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- \cdot Application of the substance / the mixture Dental filling material
- · Uses advised against No further relevant information available.
- \cdot 1.3 Details of the supplier of the safety data sheet

• Manufacturer/Supplier: Dentsply DeTrey GmbH De-Trey-Str. 1 D-78467 Konstanz GERMANY Tel.: +49-(0)7531-583-0 Fax: +49-(0)7531-583-104 email: KonstanzDEU.info-sdb@dentsplysirona.com

- Further information obtainable from: Research and Development
- 1.4 Emergency telephone number: +49-(0)7531-583-0 8:00 17:00 (GMT + 1:00)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
- Skin Sens. 1 H317 May cause an allergic skin reaction.

· 2.2 Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



· Signal word Warning

- *Hazard-determining components of labelling:* Di(ethylene glycol) dimethacrylate
- · Hazard statements

H317 May cause an allergic skin reaction.

- · Precautionary statements
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves.

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

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Additional information:
- As this product is a medical device in the meaning of Directive 93/42/EEC and regulation (EC) 2017/745 and intended for use by the end consumer and is applied in an invasive manner or body contact, it is exempt from the labelling requirements according to regulation (EC) 1272/2008.
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 2)

Printing date 16.09.2022

Version number 6 (replaces version 5)

Revision: 16.09.2022

Trade name: Dyract flow

(Contd. of page 1)

SECTION 3: Composition/information on ingredients	

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:				
CAS: 2358-84-1	Di(ethylene glycol) dimethacrylate	≥10-<25%		
	Skin Sens. 1, H317; Aquatic Chronic 3, H412	-		
CAS: 131-57-7	oxybenzone	<i>≤</i> 2.5%		
EINECS: 205-031-5	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335			
CAS: 10287-53-3	Ethyl-4-dimethylaminobenzoat	< 0.25%		
	Repr. 1B, H360; Aquatic Chronic 2, H411	-		
· Additional informat	ion For the wording of the listed hazard phrases refer to section 16			

ditional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · 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 If symptoms persist consult doctor.
- · Information for doctor No further relevant information available.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents Water with full jet.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: Self-contained respiratory protective device.

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up: Dispose contaminated material as waste according to item 13. Pick up mechanically.
- Ensure adequate ventilation.
- · 6.4 Reference to other sections
- See Section 7 for information on safe handling
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

(Contd. on page 3)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.09.2022

Version number 6 (replaces version 5)

Revision: 16.09.2022

(Contd. of page 2)

Trade name: Dyract flow

- Observe normal care for working with chemicals.
- Information about fire and explosion protection: No special measures required.
- · Handling Product is intended for dental use only.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients 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 valid during the making were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures
- Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- · Respiratory protection: Not necessary if room is well-ventilated.
- · Hand protection



Protective 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.

Natural rubber, NR

Recommended thickness of the material: $\geq 0.12 \text{ mm}$

- Permeation: Level ≥ 1
- *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.*
- · Eye/face protection Safety glasses
- · Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Physical state
- · Colour: · Odour:
- · Odour threshold:

Fluid Yellowish Product specific Not determined.

(Contd. on page 4)

GB

Printing date 16.09.2022

Version number 6 (replaces version 5)

Revision: 16.09.2022

Trade name: Dyract flow

undetermined
undetermined
Undetermined.
Not applicable.
Not determined.
Not determined.
Not applicable
Not applicable
Not determined.
Not determined.
Not determined.
Not determined.
Not miscible or difficult to mix
Not determined.
Not determined.
Not determined
Not determined.
Not determined.
paste
Product is not selfigniting.
Product does not present an explosion hazard.
60.0.0/
60.0 %
Not determined.
,
Void
Void
Void
Void
Void
1.0100
Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

GB

Version number 6 (replaces version 5)

Revision: 16.09.2022

Trade name: Dyract flow

Printing date 16.09.2022

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

 \cdot 10.3 Possibility of hazardous reactions No dangerous reactions known

• 10.4 Conditions to avoid No further relevant information available.

• 10.5 Incompatible materials: No further relevant information available.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity

· LD/LC50 values relevant for classification:

CAS: 131-57-7 oxybenzone

Oral LD50 7,400 mg/kg (rat)

Dermal | LD50 | > 16,000 mg/kg (rabbit)

CAS: 10287-53-3 Ethyl-4-dimethylaminobenzoat

Oral LD50 > 2,000 mg/kg (rat) (*OECD* 401)

Dermal | LD50 | > 2,000 mg/kg (rat)

· Skin corrosion/irritation The unpolymerized product may be irritant to the skin for succeptible persons.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

Repeated or prolonged contact with the not polymerized product may cause sensitization for acrylates / methacrylates.

· 11.2 Information on other hazards

· Endocrine disrupting properties

CAS: 131-57-7 oxybenzone

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

CAS: 131-57-7 oxybenzone

LC50/96h 100 mg/l (Fish acute toxicity study)

- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

• **vPvB:** Not applicable.

• 12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

· 12.7 Other adverse effects

· Additional ecological information:

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 6)

GR

List II

(Contd. of page 4)

Printing date 16.09.2022

Version number 6 (replaces version 5)

Revision: 16.09.2022

(Contd. of page 5)

Trade name: Dyract flow

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation



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

· Uncleaned packaging:

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

SECTION 14: Transport information			
· 14.1 UN number or ID number · ADR, IMDG, IATA	Void		
· 14.2 UN proper shipping name · ADR, 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 user	Not applicable.		
• 14.7 Maritime transport in bulk according to IMO instruments Not applicable.			
· UN ''Model Regulation'':	Void		

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer. For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the DFU.

· Relevant phrases

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

(Contd. on page 7)

⁻ GB

Version number 6 (replaces version 5)

Revision: 16.09.2022

Trade name: Dyract flow

Printing date 16.09.2022

	(Contd. of page 6)
H360 May damage fertility or the unborn child.	
H411 Toxic to aquatic life with long lasting effects.	
H412 Harmful to aquatic life with long lasting effects.	
· Department issuing SDS: Research & Development	
• Contact: HotLine for urgent technical support: +49-7531-583-350	
• Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreen	ment Concerning the
International Carriage of Dangerous Goods by Road)	nem concerning inc
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised 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 (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	
Skin Sens. 1: Skin sensitisation – Category 1	
Repr. 1B: Reproductive toxicity – Category 1B	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3	
\cdot * Data compared to the previous version altered.	
	GB