accoraing to 1907/2006/EC, Article

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Start

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

· 1.1 Product identifier

• Trade name: Dyract eXtra

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- 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 Irrit. 2 H315 Causes skin irritation.

- *Eye Irrit.* 2 *H319 Causes serious eye irritation.*
- Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· 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:

Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid Butan-1,2,3,4-tetracarbonsäure di-2-hydroxyethylmethacrylat 2,2'-ethylenedioxydiethyl dimetharcylate

· Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

- *P261 Avoid breathing dust/fume/gas/mist/vapours/spray.*
- *P273 Avoid release to the environment.*
- P280 Wear protective gloves / eye protection / face protection.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- *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.*

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• 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.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

Dangerous components:		
CAS: 41637-38-1	Esterification products of 4,4'- isopropylidenediphenol, ethoxylated and 2- methylprop-2-enoic acid	≥ 2.5 - < 10%
	<i>Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 4, H413</i>	
CAS: 105883-40-7	Urethane Dimethacrylate Resin Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥ 2.5 - < 10%
CAS: 7783-48-4 EINECS: 232-000-3	strontium fluoride Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥ 2.5 - < 10%
CAS: 144144-04-7	Butan-1,2,3,4-tetracarbonsäure di-2- hydroxyethylmethacrylat Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	≥ 2.5 - < 10%
CAS: 109-16-0 EINECS: 203-652-6	2,2'-ethylenedioxydiethyl dimetharcylate Skin Sens. 1, H317	≥1-≤2.5%
CAS: 3290-92-4		
CAS: 10287-53-3	Ethyl-4-dimethylaminobenzoat Repr. 1B, H360; Aquatic Chronic 2, H411	< 0.25%
CAS: 128-37-0 EINECS: 204-881-4 Reg.nr.: 01-2119565113-46-XXXX	2,6-di-tert-butyl-p-cresol Aquatic Acute 1, H400; Aquatic Chronic 1, H410	≥0.025 - < 0.25%
CAS: 131-57-7 EINECS: 205-031-5	oxybenzone Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≤2.5%

SECTION 4: First aid measures

• 4.1 Description of first aid measures

· General information Immediately remove any clothing soiled by the product.

· 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.

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Safety data sheet

according to 1907/2006/EC, Article 31

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• **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
- Formation of toxic gases is possible during heating or in case of fire.
- 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 section 13. Pick up mechanically.

Clean the affected area carefully; suitable cleaners are: ethyl alcohol 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. 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.

Protect from heat and direct sunlight.

• 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.

· DNELs

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Inhalative Long-term - systemic effects, worker 3.5 mg/m3 (rat)

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(Contd. of page 3) • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls • Appropriate engineering controls No further data; see section 7. · Individual protection measures, such as personal protective equipment · General protective and hygienic measures Keep away from foodstuffs, beverages and feed. The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · 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 *Permeation: Level* $\geq l$ Recommended thickness of the material: ≥ 0.12 mm • 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 Tightly sealed goggles. · Body protection: Protective work clothing.

9.1 Information on basic physical and ca	hemical properties	
General Information		
Physical state	Fluid	
Colour:	According to product specification	
Odour:	Characteristic	
Odour threshold:	Not determined.	
Melting point/freezing point:	undetermined	
Boiling point or initial boiling point and	boiling	
range	Undetermined.	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable	
Auto-ignition temperature:	Not applicable	
Decomposition temperature:	Not determined.	
pH	Not determined.	

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Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	
Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density:	Not determined
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	paste
Important information on protection of health an	d
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Solids content:	77.0 %
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classe	25
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

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

· 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

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Shellol in it is a concord from in formation	SECTION 11:	Toxicologica	l information
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- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:
- CAS: 7783-48-4 strontium fluoride
- Oral LD50 10,600 mg/kg (rat)
- CAS: 109-16-0 2,2'-ethylenedioxydiethyl dimetharcylate
- $Oral \quad LD50 > 5,000 \text{ mg/kg (rat)}$
- Dermal | LD50 | > 2,000 mg/kg (mouse)
- CAS: 3290-92-4 propylidynetrimethyl trimethacrylate
- Oral LD50 > 2,000 mg/kg (rat)

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

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

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

CAS: 128-37-0 2,6-di-tert-butyl-p-cresol

Oral LD50 2,930 mg/kg (rat)

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

CAS: 131-57-7 oxybenzone

- Oral LD50 7,400 mg/kg (rat)
- Dermal | LD50 | > 16,000 mg/kg (rabbit)
- Skin corrosion/irritation
- Causes skin irritation.
- The unpolymerized product may be irritant to the skin for succeptible persons.
- Serious eye damage/irritation Causes serious eye irritation.
- · 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: 128-37-0 2,6-di-tert-butyl-p-cresol
- CAS: 131-57-7 oxybenzone

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity:
- CAS: 109-16-0 2,2'-ethylenedioxydiethyl dimetharcylate
- LC50/96h 16.4 mg/l (Brachydanio rerio)
- |EC50/72h| > 100 mg/l (Pseudokirchnerella subcapitata)
- CAS: 3290-92-4 propylidynetrimethyl trimethacrylate
- LC50/96h 2 mg/l (Fish acute toxicity study)
- |EC50/48h| > 9.22 mg/L (daphnia magna)
- CAS: 128-37-0 2,6-di-tert-butyl-p-cresol
- LC50/48h 0.199 mg/l (Fish acute toxicity study)
- EC50/48h 0.758 mg/L (Alg)
 - 0.48 mg/L (daphnia magna)

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List II

List II

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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

• Remark: Harmful to fish

• Additional ecological information:

· General notes:

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

Harmful to aquatic organisms

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	ion	
· 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 instruments	g to IMO 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.

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· 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. H360 May damage fertility or the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life. · 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 Agreement Concerning the International Carriage of Dangerous Goods by Road) 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) DNEL: Derived No-Effect Level (UK REACH) 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 Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 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 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4 • * Data compared to the previous version altered.