Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 20.07.2022 Version number 2202 (replaces version 2201) Revision: 20.07.2022

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

. **1.1 Product identifier**

. Trade name: **xRESIN® Model - 405nm (Water-Wash / Beige Opak - Grey - White)**

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

. Life cycle stages: IS Use at industrial Sites
PW Widespread use by professional workers

. Sector of Use: SU7 Printing and reproduction of recorded media

. Product category: PC32 Polymer preparations and compounds

. Process category: PROC13 Treatment of articles by dipping and pouring

. Environmental release category: ERC2 Formulation into mixture
ERC6c Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article)

. Article category: AC0 Other

. Technical function: Resins (prepolymers

. Application of the substance / the mixture: Acrylic resin

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

. Manufacturer/Supplier:
xDEPOT GmbH
Rudolf-Diesel-Straße 8
85221 Dachau

T +49-8131-275247-0
info@x-dentaldepot.com

. Further information obtainable from:
Industrial Safety Department
Medizinische Notfallauskunft bei Vergiftungen:

. **1.4 Emergency telephone number:**
Giftinformationszentrum Mainz - 24h -
Tel.: +49 (0) 6131 19240

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SECTION 2: Hazards identification

. **2.1 Classification of the substance or mixture**

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

Acute Tox. 4	H302 Harmful if swallowed.
Acute Tox. 4	H312 Harmful in contact with skin.
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

GHS07

. Signal word: Warning

. Hazard-determining components of labelling:
hexamethylene diacrylate
Photoinitiator

. Hazard statements:
H302+H312 Harmful if swallowed or in contact with skin.
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.
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330 Rinse mouth.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

. Additional information:
7.5 % of the mixture consists of component(s) of unknown toxicity.
Contains 7.5 % of components with unknown hazards to the aquatic environment.

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

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SECTION 3: Composition/information on ingredients

. **3.2 Mixtures**

. Dangerous components:		
	Acrylated monomer 3 Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 – 25%
	Acrylated oligomer 2 Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 – 25%
	Acrylated oligomer 3 Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 – 25%
	Acrylated monomer 2 Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 – 25%
	Acrylated monomer 1 Skin Irrit. 2, H315; Eye Irrit. 2, H319	10 – 25%
	Acrylated oligomer 1 Skin Irrit. 2, H315; Eye Irrit. 2, H319	2.5 – 10%
CAS: 13048-33-4 EINECS: 235-921-9	hexamethylene diacrylate Aquatic Acute 1, H400; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	2.5 – 10%
CAS: 947-19-3 EINECS: 213-426-9	Photoinitiator Skin Sens. 1, H317	< 2.5%

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

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SECTION 4: First aid measures

. **4.1 Description of first aid measures**
. General information: Take affected persons out of danger area and lay down.
. After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.
Use a respiratory bag or breathing device.
. After skin contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
. After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
. After swallowing: Induce vomiting only, if affected person is fully conscious.
Drink plenty of water and provide fresh air. Call for a doctor immediately.
A person vomiting while laying on their back should be turned onto their side.
. **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.

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SECTION 5: Firefighting measures

. **5.1 Extinguishing media**
. Suitable extinguishing agents: CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
. For safety reasons unsuitable extinguishing agents: Full jet water
. **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
. **5.3 Advice for firefighters**
. Protective equipment: Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.

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SECTION 6: Accidental release measures

. **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation
Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.

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. **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.
Keep contaminated washing water and dispose of appropriately.

. **6.3 Methods and material for containment and cleaning up:** Absorb liquid components with liquid-binding material.

. **6.4 Reference to other sections** See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

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SECTION 7: Handling and storage

. **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
Ensure that suitable extractors are available on processing machines

. Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

. **7.2 Conditions for safe storage, including any incompatibilities**

. Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

. Information about storage in one common storage facility: Do not store together with alkalis (caustic solutions).
Store away from oxidising agents.
Store away from reducing agents.

. Further information about storage conditions: Store receptacle in a well ventilated area.
Store in a cool place.
Protect from heat and direct sunlight.

. **7.3 Specific end use(s)** No further relevant information available.

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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: Wash hands before breaks and at the end of work.
Do not eat, drink, smoke or sniff while working.
Do not inhale gases / fumes / aerosols.

. Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

. Hand protection The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
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.

. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

. Eye/face protection Tightly sealed goggles
Face protection

. Body protection: Protective work clothing
Solvent resistant protective clothing

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SECTION 9: Physical and chemical properties

. **9.1 Information on basic physical and chemical properties**

. General Information

. Physical state	Solid
. Colour:	Whitish
. Odour:	Characteristic
. Odour threshold:	Not determined.

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. Boiling point or initial boiling point and boiling range	> 145 °C
. Flammability	Not determined.
. Flash point:	Not applicable.
. Decomposition temperature:	Not determined.
. pH at 20 °C	7.7
. Viscosity:	
. Kinematic viscosity	Not applicable.
. Dynamic at 20 °C:	250 – 350 mPas
. Solubility	
. water:	Soluble.
. Partition coefficient n-octanol/water (log value)	Not determined.
. Vapour pressure:	Not determined.
	Not applicable.
. Density and/or relative density	
. Density at 20 °C:	1.08 g/cm³
. Relative density	Not determined.
. Vapour density	Not applicable.

. **9.2 Other information**	
. Appearance:	
. Form:	Liquid
. Important information on protection of health and environment, and on safety.	
. Auto-ignition temperature:	Product is not selfigniting.
. Explosive properties:	Not determined.
. Change in condition	
. Evaporation rate	Not applicable.

. Information with regard to physical hazard classes	
. 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

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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 and stored 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:**	Carbon monoxide and carbon dioxide

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SECTION 11: Toxicological information

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

. Acute toxicity Harmful if swallowed or in contact with skin.

. LD/LC50 values relevant for classification:

Oral	LD50	> 1,050 mg/kg (rat)
Dermal	LD50	> 1,050 mg/kg (rat)

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CAS: 13048-33-4 hexamethylene diacrylate		
Oral	LD50	> 5,000 mg/kg (rat)
Dermal	LD50	> 3,000 mg/kg (rab)

. Skin corrosion/irritation Causes skin irritation.
. Serious eye damage/irritation Causes serious eye irritation.

Irritation of eyes	Augenreiz- und -ätzwirkung	(rab)

. Respiratory or skin sensitisation May cause an allergic skin reaction.

Sensitisation	Sensibilisierung	

. **11.2 Information on other hazards**

. Endocrine disrupting properties
None of the ingredients is listed.

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SECTION 12: Ecological information

. **12.1 Toxicity**

. Aquatic toxicity:	
LC50 acute (96h)	> 25 mg/l (danio rerio/ Zebrabärbling)
EC50 (48h)	> 300 mg/l (Ceriodaphnia dubia (Wasserfloh))
EC50 (72h)	≥ 200 mg/l (Lemna aequinoctialis - Wasserpflanzen)

. **12.2 Persistence and degradability**	
Biodegradability	%

. **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** The product does not contain substances with endocrine disrupting properties.
. **12.7 Other adverse effects**
. Additional ecological information:
. General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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SECTION 13: Disposal considerations

. **13.1 Waste treatment methods**

. European waste catalogue	
HP4	Irritant - skin irritation and eye damage
HP14	Ecotoxic

. Uncleaned packaging:
. Recommendation: Non contaminated packagings may be treated like household garbage.
. Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

. **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 user**	Not applicable.
. **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.

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. 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.

. Department issuing SDS: Environment protection department.
. 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
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
Aquatic Acute 1: Hazardous to the aquatic environment - acute 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

. * Data compared to the previous version altered.