



# HARZ Labs Dental Soft Pink

Material safety data sheet (MSDS) according to Regulation (EC) No 1907/2006 (REACH) Version 1.3 / EN 26 November 2018





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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier ne

Product	Nan
CAS #	

HARZ Labs "Dental Soft Pink" Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses Resin for printing tough dental 3D models on stereolithographic 3D printers. NOT FOR INTRAORAL USE!

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

Company Name	HARZ Labs LLC.
Company Address	Ulitsa Tvardovskogo, 8 b.1, Moscow, 123458
Contact Name	Adamov Andrey Vladimirovich
Phone / Fax	+74952910200
Email	info@harzlabs.ru

1.4 Emergency telephone number

+74952910200

## SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substa	ance or mixture
Classification according to	Skin sensitization, category 1B
Regulation (EC) No	Chemical products with chronic aquatic toxicity, class 2
1272/2008	

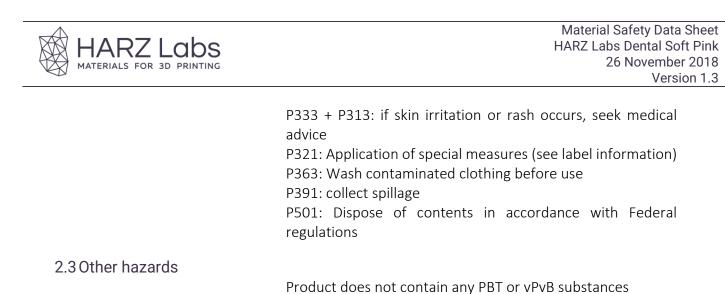
2.2 Label elements Hazard pictograms

> Signal word Hazard statements

Precautionary statements



Carefully H317: May cause an allergic skin reaction H411: This is toxic to aquatic organisms with long-term effects P261: Avoid breathing dust/fume/gas/mist/vapours/ substances in an atomized state P272: Do not remove contaminated clothing from the workplace P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye / face protection P302 + P352: If on skin: Wash with plenty of soap and water



## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures CAS No Substance name EC No Classification Concentration GHS07 GHS09 Urethane methacrylate 50-70% \*\* Warning oligomer\* Skin Sens. 1B; H317 Aquatic Chronic 2; H411 Propylene glycol Aquatic chronic Cat 3 200-338-0 57-55-6 10-20 % GHS07 Warning 1-5% \*\* 2-hydroxypropyl methacrylate 212-782-2 868-77-9 Eye Irrit. 2; H319 Skin Sens. 1B; H317 GHS09 Phenylbis(2,4,6-Warning trimethylbenzoyl)phosphine 423-340-5 162881-26-7 1-3% \*\* Aquatic Acute 4; H413, oxide Skin Sens. 1; H317

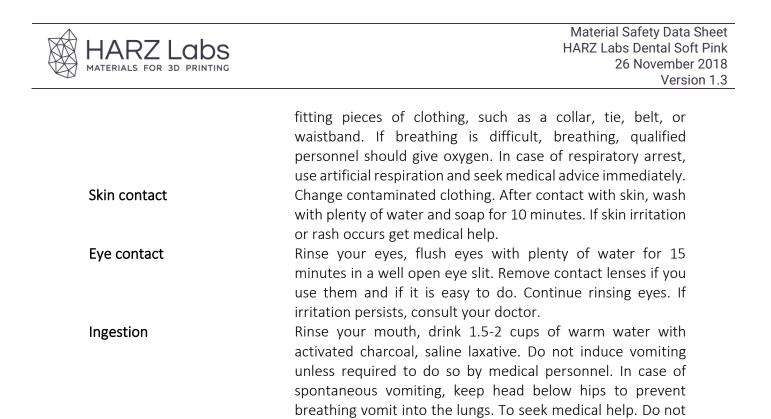
\* The exact name of the components, CAS number, EC number are not provided, as they are a trade secret of the manufacturer (supplier).

\*\* The exact percentage of the components is not provided, as it is a trade secret of the manufacturer (supplier).

## SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information	Get medical attention if required.
Inhalation	Remove victim to fresh air and keep at rest in a comfortable
	for breathing. Do not block the access of air. Loosen tightly



4.2 Most important symptoms and effects, both acute and delayed

Inhalation	Not installed
Skin contact	May cause an allergic skin reaction. Side effects in case of
	prolonged contact: redness, irritation, rash.
Eye contact	Not installed.
Ingestion	Not installed.

induce vomiting in an unconscious person.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. If the products of decay during
	combustion got into the respiratory system, symptoms may
	occur later. The victim may need medical supervision within
	48 hours/
Specific treatments	No specific treatment.

#### SECTION 5: FIREFIGHTING MEASURES

- 5.1 Extinguishing media
   Suitable extinguishing media
   Unsuitable extinguishing
   Do not use direct water jets.
   media
- 5.2 Special hazards arising from the substance or mixture Hazardous combustion Fire and explosion proof. products
- 5.3 Advice for fire-fighters



Special protective actions for fire-fighters	During a fire, promptly isolate the scene by removing all persons from the vicinity of. Use normal fire fighting procedures not forgetting about the danger that can come from other materials. For cooling of the closed containers which are in the fire center, to use the sprayed water. Hold on to the windward side. Collect contaminated fire fighting water separately. It is unacceptable to enter the sewer system
Special protective equipment for fire-fighters	In case of fire it is necessary to wear a self-contained breathing apparatus (SCBA) and a full set of protective clothing that meets the standard EN 469.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protec For non-emergency personnel	tive equipment and emergency procedures Forms a slippery surface at spill. Clean up leaks immediately to prevent falling on slippery surfaces. To eliminate sources of sparks and flames. Avoid contact.
For emergency responders	Use proper PPE as indicated in Section 8.
6.2 Environmental precautions Environmental precautions	Do not allow to enter waste water, groundwater. Inform the relevant organizations in case of damage to the environment.
6.3 Methods and materials for co Methods for cleaning up	ontainment and cleaning up Absorb with vermiculite or other inert absorbent materials. Send for disposal (see Section 13). Spill area, wash with warm water using chemical cleaners.

#### SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling Protective measures	If necessary, use personal protective equipment (see Section 8). Do not eat, drink or smoke during use of product. Wash hands before breaks and after work
7.2 Conditions for safe storage, inc	cluding any incompatibilities
Technical measures and storage	Store in the closed original container in a cool, dry well-

Technical measures and storage	Store in the closed original container in a cool, dry well-
conditions	ventilated place away from incompatible materials, direct
	sunlight, sources of ignition and heat.
Packaging materials	Metal or plastic container



#### 7.3 Specific end uses Recommendations

Use only for its intended purpose in accordance with the instructions for use and/or packing instructions.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Exposure limit values	No components with occupational exposure limits.
8.2 Exposure controls Appropriate Engineering Measures	Facilities must be provided by a system of local and General ventilation. Work with the product in a well-ventilated area. Normal precautions should be taken when handling chemicals.
Individual protection measures, such as personal protective equipment	
Eye and face protection	It is recommended to use safety goggles according to EN 166 in case of risk of splashing.
Skin protection	Protective rubber or neoprene gloves according to EU 89/686/EEC and standard EN 374.
Body Protection	Working protective clothing with long sleeves.
Respiratory protection	Not required in the presence of good ventilation. When working with the product for a long time at elevated temperatures, it is recommended to use full face masks equipped with combined filters or filters of ABEK (EN 14387).
Environmental exposure	
controls	Do not empty into drains
Hygiene Measures	To maintain the work place clean. Do not eat, drink or smoke while working. Wash hands before breaks and at the end of the working day. Take off contaminated clothing and wash before reuse.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State	Liquid
Colour	Pink
Odour	Not odour
рН	No data available
Melting point/Freezing point	No data available



Initial boiling point/boiling	
range	No data available
Flash point	>100°C
Evaporation rate	No data available
Flammability Limits	No data available
Explosive limits	No data available
Vapour pressure	No data available
Vapour density	Not applicable
Relative Density	1.0 – 1.2 g/ml
Solubility(ies)	Insoluble
Partition coefficient	
Octanol/Water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity @20±2°C	500 - 800 mPa*s
Explosive properties	Non-explosive
Oxidizing Properties	No
Possibility of hazardous	
reactions	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	There are no hazardous reactions in compliance with the requirements/instructions for storage and use
10.2	Chemical stability	Product is stable, if the regulations/notes for storage and handling
10.3	Possibility of hazardous	s reactions None under normal processing
10.4	Conditions to avoid	Exposure to open fire and high temperatures, direct sunlight and water. It is polymerized under the influence of white light, ultraviolet radiation and when heated
10.5	Incompatible materials	Strong acids (including inorganic), alkalis, peroxides, amines, organic sulfur compounds, heavy metals, oxidizing agents, reducing agents, bases, alcohols, initiators of radical polymerization



Propylene glycol

Phenylbis(2,4,6-

oxide

trimethylbenzoyl)phosphine

#### 10.6 Hazardous decomposition products

In the case of compliance with the regulations/notes for storage and use, hazardous decomposition products are not highlighted. In case of fire: see Section 5

> No data available. In case of skin contact:

If swallowed:

If inhaled:

LD50 501—2500 mg / kg (rats)

LD50>2500 mg / kg (rats)

LC50>1 mg / I (rats, 4 h)

In case of skin contact: LD50>2000 mg / kg (rats)

#### SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information or Acute toxicity	n toxicological eff No acut	ects :e toxicity - based on com	ponent data:
Substance name EC № CAS №		Test	
Urethane methacrylate oligomer*	-	-	If swallowed: LD50>5000 mg / kg (rats) If inhaled: Not applicable. In case of skin contact: LD50>2000 mg / kg (rats)
2-hydroxypropyl methacrylate	213-090-3	923-26-2	If swallowed: LD50>5000 mg / kg (rats) If inhaled: No data available. In case of skin contact: LD50>5000 mg / kg (rats)
Dropulana ducal	200 228 0		If swallowed: LD50 151—5000 mg / kg (rats) If inhaled:

57-55-6

162881-26-7

Skin corrosion/irritation	Not irritating
Serious eye damage/eye irritation	Not irritating
	Not initiating
Respiratory or skin sensitisation	May cause an allergic skin reaction
Germ cell mutagenicity	Not classified
Carcinogenicity	IARC, NTP, OSHA, ACGIH: Not listed by IARC
Reproductive toxicity	Not classified
STOT - SE	Not classified
STOT - RE	Not classified

200-338-0

423-340-5



Aspiration hazard

No data available

## SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity Aquatic toxicity

Acute toxicity for aquatic organisms is missing, has chronic toxicity for algae and cyanobacteria – based on data on the components

Substance name	EC №	CAS №	Toxicity to fish	Toxicity to invertebrate s	Toxicity to algae and cyanobacteri a	Toxicity to microorganisms
Urethane methacrylate oligomer*	-	-	Danio rerio LC50 (96h) =10,1 mg/l	Daphnia magna EC50 (48h) >1,2 mg/l	Desmodesm us subspicatus ErC50 (72h) =0,68 мг/л NOErC(72h) =0,21 мг/л	NOEC (14d) ≥36,1 mg/l
2-hydroxypropyl methacrylate	213-090-3	923-26-2	Oryzias latipes LC50 (96h) >100 mg/l	Daphnia magna EC50 (48h) >380 mg/l	Selenastrum capricornutu m EC50 (72ч) =836 мг/л	_
Propylene glycol	200-338-0	57-55-6	-	-	-	-
Phenylbis(2,4,6- trimethylbenzoyl) phosphine oxide	423-340-5	162881-26-7	Danio rerio LC50 (96h) =24 mg/l	Daphnia magna EC50 (48h) =53.9 mg/l	Desmodesm us subspicatus EC50 (72h) =17,3 mg/l NOEC(72h) =0,7 mg/l	Activated sludge EC50 (3h) >100 mg/l

#### 12.2 Persistence and Degradability Biodegradation No data available

12.3 Bioaccumulative potential Bioaccumulative potential No data available Partition coefficient It has low mobility in the soil

#### 12.4 Mobility in soil Mobility

Is not likely mobile in the environment due its low water solubility

#### 12.5 Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances



#### 12.6 Other adverse effects

No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product / Packaging disposal	For utilization it is necessary to contact the relevant
	company. Otherwise, disposal is carried out in accordance
	with Federal environmental regulations
Contaminated packaging	Dispose of the package as well as the contents

#### SECTION 14: TRANSPORT INFORMATION

ADR/RID Not regulated IMDG/IMO Not regulated ICAO/IATA Not regulated ADN Not regulated

#### SECTION 15: REGULATORY INFORMATION

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

EU regulations	EU Regulation (EC) No 1907/2006 (REACH)	
	EU Regulation (EC) No 1272/2008 (CLP)	
Other EU regulations	<ul> <li>Directive 89/686/EEC: personal protective equipment.</li> <li>ISO EN 374-1:2016: Gloves that protect against chemicals and microorganisms. Part 1. Terminology and requirements for gloves for protection against chemicals.</li> <li>EN 166: 2002: personal eye protection. General technical requirements.</li> <li>EN 469: 2005: protective clothing for firefighters.</li> <li>Requirements for protective clothing for firefighters.</li> <li>EN 14387:2004+A1:2008: means of individual protection of respiratory organs. The gas filters and combined. General technical requirements. Test method. Marking</li> </ul>	

15.2 Chemical Safety Assessment

No data available

#### SECTION 16: ADDITIONAL INFORMATION

16.1	complete list of H-phrases
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IATERIALS FOR 3D PRINTING

H317: May cause an allergic skin reactionH319: Causes serious eye irritationH402: Harmful to aquatic lifeH411: Toxic to aquatic organisms with long-termeffects

16.2 Abbreviations and acronyms

CAS: Chemical Abstracts Service (division of the American Chemical Society) EC: European Community number ACGIH: American Conference of Governmental Industrial Hygienists NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration IARC: International Agency for Research on Cancer NTP: National Toxicology Program vPvB: Very persistente and very bioaccumulative PBT: Polybutylene Terephthalate PPE: Personal protective equipment SCBA: Self-contained breathing apparatus EL50: 50% Effect Loading LC50: Median lethal concentration LD50: Median lethal dose LL50: 50% Lethal Loading NOEC: No Observable Effect Level bw: body weight STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure ADR/RID: Accord Dangereuses Route/International Carriage of Dangerous Goods by Rail IMDG/IMO: International Maritime Dangerous Goods/International Maritime Organisation ICAO/IATA: International Civil Aviation Organization/International Air Transport Association ADN: International Carriage of Dangerous Goods by Inland Waterways

16.3 Training advice

Read the safety data sheet before using the product



#### 16.4 Further information

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The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall OOO «XAPL Ja6c»(HARZ Labs LLC) be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if OOO «XAPL Ja6c»(HARZ Labs LLC) has been advised of the possibility of such damages.