

HARZ Labs Dental Tray V2

Material safety data sheet (MSDS)
according to Regulation (EC) No 1907/2006 (REACH)
Version 1.0 / EN
17 January 2025

Hazard pictograms





Signal word: Carefully



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

1.1 Product identifier

Product Name HARZ Labs "Dental Tray V2"

CAS # Mixture

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

Identified uses Resin for 3D printing models on stereolithographic 3D

printers.

1.3 Details of the supplier of the safety data sheet

Company Name HARZ Labs LLC.

Company Address Silikatnaya str, 51A bld.5, Mytishchi, 141013

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 substance 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

Signal word

Hazard pictograms





Hazard statements H317: May cause an allergic skin reaction

H411: This is toxic to aquatic organisms with long-term

effects

Precautionary statements 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



P333 + P313: if skin irritation or rash occurs, seek medical

advice

P321: Application of special measures (see label information)

P363: Wash contaminated clothing before use

P391: collect spillage

P501: Dispose of contents in accordance with Federal

regulations

2.3 Other hazards

Product does not contain any PBT or vPvB substances

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

Substance name	EC No	CAS No	Classification	Concentration	
Urethane (meth)acrylate oligomer*			GHS07	50-70% **	
	-	-	GHS09		
			Warning		
			Skin Sens. 1B; H317		
			Aquatic Chronic 2; H411		
(Meth)acrylate monomer	-	-	GHS07	10-25% **	
			Warning		
			Eye Irrit. 2; H319		
			Skin Sens. 1B; H317		
Phenylbis(2,4,6- trimethylbenzoyl)phosphine oxide	423-340-5	162881-26-7	GHS09		
			Warning	1-5% **	
			Aquatic Acute 4; H413,		
			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).

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information Inhalation

Get medical attention if required.

Remove victim to fresh air and keep at rest in a comfortable for breathing. Do not block the access of air. Loosen tightly fitting pieces of clothing, such as a collar, tie, belt, or

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



waistband. If breathing is difficult, breathing, qualified

personnel should give oxygen. In case of respiratory arrest, use artificial respiration and seek medical advice immediately.

Skin contact Change contaminated clothing. After contact with skin, wash

with plenty of water and soap for 10 minutes. If skin irritation

or rash occurs get medical help.

Eye contact Rinse your eyes, flush eyes with plenty of water for 15

minutes in a well open eye slit. Remove contact lenses if you use them and if it is easy to do. Continue rinsing eyes. If

irritation persists, consult your doctor.

Ingestion Rinse your mouth, drink 1.5-2 cups of warm water with

activated charcoal, saline laxative. Do not induce vomiting unless required to do so by medical personnel. In case of spontaneous vomiting, keep head below hips to prevent breathing vomit into the lungs. To seek medical help. Do not

induce vomiting in an unconscious person.

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.

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 Use

Use carbon dioxide, powder, foam, fine water.

Unsuitable extinguishing

media

Do not use direct water jets.

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, protective equipment and emergency procedures

For non-emergency personnel 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 containment and cleaning up

Methods for 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, including any incompatibilities

Technical measures and storage

conditions

Store in the closed original container in a cool, dry wellventilated place away from incompatible materials, direct

sunlight, sources of ignition and heat.

Packaging materials Metal or plastic container



7.3 Specific end uses

RecommendationsUse 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 Blue
Odour Weak

pH No data availableMelting point/Freezing point No data available



Initial boiling point/boiling

range No data available

Flash point >100°C

Evaporation rate

Flammability Limits

No data available

Not applicable

Relative Density

1.0 – 1.2 g/ml

Solubility(ies)

Insoluble

Partition coefficient

Octanol/Water

Auto-ignition temperature

Decomposition temperature

Viscosity @25±2°C

Explosive properties

No data available
No data available
450 ± 200 mPa*s
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 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



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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity No acute toxicity - based on component data:

Substance name	EC Nº	CAS Nº	Test	
			If swallowed:	
	-		LD50>5000 mg / kg (rats)	
Urethane (meth)acrylate oligomer*			If inhaled:	
			Not applicable.	
			In case of skin contact:	
			LD50>2000 mg / kg (rats)	
(Meth)acrylate monomer	-	-	If swallowed:	
			LD50>5000 mg / kg (rats)	
			If inhaled:	
			No data available.	
			In case of skin contact:	
			LD50>5000 mg / kg (rats)	
Phenylbis(2,4,6- trimethylbenzoyl)phosphine oxide	423-340-5	162881-26-7	If swallowed:	
			LD50>2500 mg / kg (rats)	
			If inhaled:	
			LC50>1 mg / I (rats, 4 h)	
			In case of skin contact:	
			LD50>2000 mg / kg (rats)	

Skin corrosion/irritation Not irritating

Serious eye damage/eye

irritation Not irritating

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
STOT - SE
STOT - RE
Not classified
Not classified
Not classified
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

	for algae and cyanobacteria – based on data on the component					
Substance name	EC Nº	CAS №	Toxicity to	Toxicity to	Toxicity to	Toxicity to
			fish	invertebrate	algae and	microorganisms
				S	cyanobacteri	
					a	
			Danio rerio	Daphnia	Desmodesm	NOEC (14d)
			LC50 (96h)	magna	us	≥36,1 mg/l
Urethane			=10,1 mg/l	EC50 (48h)	subspicatus	, 3.
(meth)acrylate	_	-	, 3,	>1,2 mg/l	ErC50 (72h)	
oligomer*				, 3.	=0,68 мг/л	
060					NOErC(72h)	
					=0,21 мг/л	
			Oryzias	Daphnia	Selenastrum	_
(N 4 a t la) a a m d a t a			latipes	magna	capricornutu	
(Meth)acrylate	-	-	LC50 (96h)	EC50 (48h)	m	
monomer			>100 mg/l	>380 mg/l	EC50 (724)	
					=836 мг/л	
			Danio rerio	Daphnia	Desmodesm	Activated sludge
			LC50 (96h)	magna	us	EC50 (3h)
Phenylbis(2,4,6-			=24 mg/l	EC50 (48h)	subspicatus	>100 mg/l
trimethylbenzoyl)	423-340-5	162881-26-7		=53.9 mg/l	EC50 (72h)	
phosphine oxide					=17,3 mg/l	
' '					NOEC(72h)	
					=0,7 mg/l	

12.2 Persistence and Degradability

Biodegradation No data available

12.3 Bioaccumulative potential

Bioaccumulative potential No data available

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 Directive 89/686/EEC: personal protective equipment.

ISO EN 374-1:2016: Gloves that protect against chemicals and microorganisms. Part 1. Terminology and requirements for gloves for protection against

chemicals.

EN 166: 2002: personal eye protection. General

technical requirements.

EN 469: 2005: protective clothing for firefighters. Requirements for protective clothing for firefighters. EN 14387:2004+A1:2008: means of individual protection of respiratory organs. The gas filters and combined. General technical requirements. Test

method. Marking

15.2 Chemical Safety Assessment

No data available

SECTION 16: ADDITIONAL INFORMATION

16.1 complete list of H-phrases

H317: May cause an allergic skin reaction



H319: Causes serious eye irritation

H402: Harmful to aquatic life

H411: Toxic to aquatic organisms with long-term

effects

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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