



HARZ Labs Industrial Nylon

Material safety data sheet (MSDS) according to Regulation (EC) No 1907/2006 (REACH) Version 1.0 / EN 19 December 2022



Signal word: Carefully



CONTENT

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING	3
SECTION 2: HAZARDS IDENTIFICATION	3
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS	4
SECTION 4: FIRST AID MEASURES	4
SECTION 5: FIREFIGHTING MEASURES	5
SECTION 6: ACCIDENTAL RELEASE MEASURES	6
SECTION 7: HANDLING AND STORAGE	6
SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION	
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	7
SECTION 10: STABILITY AND REACTIVITY	8
SECTION 11: TOXICOLOGICAL INFORMATION	
SECTION 12: ECOLOGICAL INFORMATION	10
SECTION 13: DISPOSAL CONSIDERATIONS	
SECTION 14: TRANSPORT INFORMATION	11
SECTION 15: REGULATORY INFORMATION	11
SECTION 16: ADDITIONAL INFORMATION	11



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

1.1 Product identifier Product Name

Product	Nan
CAS #	

HARZ Labs "Industrial Nylon" Mixture

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses Resin for 3D printing

1.3 Details of the supplier of the safety data sheet

1.1	
Company Name	HARZ Labs LLC.
Company Address	123298,3-ya Khoroshevskaya str, 13 bld.1, room 4.4,
	Moscow
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



	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
ls	

Product does not contain any PBT or vPvB substances

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

2.3 Other hazard

Not applicable

3.2 Mixtures

Substance name	EC No	CAS No	Classification	Concentration				
			GHS07					
Urethane methacrylate oligomer*	-	-	GHS09					
			Warning	50-70% **				
oligoittei			Skin Sens. 1B; H317					
								Aquatic Chronic 2; H411
			GHS07					
(Math)actulic manamar*			Warning	30-50% **				
(Meth)acrylic monomer*	-	-	Eye Irrit. 2; H319	50-50%				
			Skin Sens. 1B; H317					
	Photoinitiator 278-355-8	3 75980-60-8	GHS09					
Dhatainitiatar			Warning	1-5% **				
FIIOLOIIILIALOI			Aquatic Acute 4; H413,	T-7/0				
			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

Inhalation

General information 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

HARZ Labs	Material Safety Data Sheet HARZ Labs Industrial Nylon 19 December 2022 Version 1.0
Skin contact	waistband. If breathing is difficult, breathing, qualified personnel should give oxygen. In case of respiratory arrest, use artificial respiration and seek medical advice immediately. 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 symptom Inhalation Skin contact	s and effects, both acute and delayed Not installed May cause an allergic skin reaction. Side effects in case of

prolonged contact: redness, irritation, rash.

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

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media
 Suitable extinguishing media
 Unsuitable extinguishing media
 Do not use direct water jets.
 media

Not installed. Not installed.

4.3 Indication of any immediate medical attention and special treatment needed

No specific treatment.

48 hours/

- 5.2 Special hazards arising from the substance or mixture Hazardous combustion Fire and explosion proof. products
- 5.3 Advice for fire-fighters

Eye contact

Notes to physician

Specific treatments

Ingestion



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	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 conditions	Store in the closed original container in a cool, dry well- ventilated place away from incompatible materials, direct

sunlight, sources of ignition and heat.Packaging materialsMetal 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	Green-yellow
Odour	Odourless
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	600-1100 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



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

Acute toxicity	No acute toxicity - based on component data:			
Substance name	EC № CAS №		Test	
			If swallowed: LD50>5000 mg / kg (rats)	
Urethane methacrylate oligomer*	-	-	If inhaled: Not applicable.	
			In case of skin contact: LD50>2000 mg / kg (rats)	
(Meth)acrylic monomer*	-	-	If swallowed: LD50>5000 mg / kg (rats) If inhaled: No data available. In case of skin contact: LD50>5000 mg / kg (rats)	
Photoinitiator	278-355-8	75980-60-8	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)	

Not irritating
Not irritating
May cause an allergic skin reaction
Not classified
IARC, NTP, OSHA, ACGIH: Not listed by IARC
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

		-		yanobaetena ba		
Substance name	EC Nº	CAS №	Toxicity to	Toxicity to	Toxicity to	Toxicity to
			fish	invertebrates	algae and	microorganisms
					cyanobacteria	
			Danio rerio	Daphnia magna	Desmodesmus	NOEC (14d)
Urethane			LC50 (96h)	EC50 (48h)	subspicatus	≥36,1 mg/l
			=10,1 mg/l	>1,2 mg/l	ErC50 (72h)	
methacrylate	-	-			=0,68 мг/л	
oligomer*					NOErC(72h)	
					=0,21 мг/л	
			Oryzias	Daphnia magna	Selenastrum	-
(Meth)acrylic monomer*			latipes	EC50 (48h)	capricornutum	
	-	-	LC50 (96h)	>380 mg/l	ЕС50 (72ч)	
			>100 mg/l		=836 мг/л	
Photoinitiator			Danio rerio	Daphnia magna	Desmodesmus	Activated sludge
			LC50 (96h)	EC50 (48h)	subspicatus	EC50 (3h)
	75980-	75980-	=24 mg/l	=53.9 mg/l	EC50 (72h)	>100 mg/l
	278-355-8	60-8			=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
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 Dispose of the package as well as the contents

Contaminated packaging

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 subst	Safety, health and environ ance or mixture	mental regulations/legislation specific for the
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 Assessm	ent
	- ,	No data available

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 irritationH402: Harmful to aquatic lifeH411: 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
Training advice	
	Read the safety data sheet before using the product

16.4 Further information

16.3

Date of issue: 19.12.2022 Version no. 1.0



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.