29 CFR 1910.1200

Printing date 06/04/2024

Version number 1

Reviewed on 06/04/2024

1 Identification

Product identifier

Trade name: <u>xDENT201-Beige</u>

Recommended use of the chemical and restrictions on use: Application of the substance / the preparation: 3D printing resin, NOT for human consumption.

Details of the supplier of the safety data sheet Supplier:

Nexa3D, Inc. 1923 Eastman Ave. STE 200, Ventura, CA 93003 USA Phone number: 1-805-465-9001

Email: info@nexa3d.com

Emergency telephone number:

ChemTel 1-800-255-3924 (USA), 1-813-248-0585 (international), Contract MIS3892732

2 Hazard(s) identification

Classification of the substance or mixture Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200). GHS08 Health hazard Carcinogenicity 2 H351 Suspected of causing cancer. Specific Target Organ Toxicity - Repeated Exposure 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS05 Corrosion Eye Damage 1 H318 Causes serious eye damage. GHS07 Acute Toxicity - Oral 4 H302 Harmful if swallowed. H315 Causes skin irritation. Skin Irritation 2 H317 May cause an allergic skin reaction. Sensitization - Skin 1 Specific Target Organ Toxicity - Single Exposure 3 H335 May cause respiratory irritation. · Information concerning particular hazards for human and environment: The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200). · Classification system: The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

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Tabal alam anda	(Contd. of page
	ding to OSHA Hazard Communication Standard (29 CFR 1910.1200)
Hazard pictogra	IMS
$\langle - \langle - \langle - \rangle \rangle$	
GHS05 GHS	S07 GHS08
Signal word Da	nger
	ining components of labeling:
	penyl)-morpholine
	xoallyl)oxy]methyl]-1,3-propanediyl diacrylate
	lenediphenyl dimethacrylate
	2,1-ethanediyl) diacrylate
	i-trimethylbenzoyl)-phosphine oxide
Hazard stateme	
	f swallowed. H315
<i>Causes skin irri</i>	
Causes serious	, .
	e an allergic skin reaction.
	l of causing cancer.
	e respiratory irritation.
	e damage to organs through prolonged or repeated exposure.
Precautionary S	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
<i>P301+P312</i>	If swallowed: Call a poison center/doctor if you feel unwell.
P302+P352 P304+P340	If on skin: Wash with plenty of water.
	<i>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</i>
P303+P331+P3	338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if pres
D210	and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P308+P313	<i>IF exposed or concerned: Get medical advice/attention.</i>
P321 P314	Specific treatment (see on this label).
P314 P330	Get medical advice/attention if you feel unwell. Rinse mouth
P350 P362+P364	
P333+P313	Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
P363	
P303 P403+P233	Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed.
P405+P255 P405	
P501	Store locked up. Dispose of contents/container in accordance with local/regional/national/international
1 301	Dispose of contents/container in accordance with tocal/regional/national/international



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3 Composition/inj	formation on ingredients	
Chemical ch Description:	naracterization: Mixtures	
	he substances listed below with nonhazardous vording of the listed hazard statements refer to	
Estiposition:		
CAS: 3253-39-2	4,4'-isopropylidenediphenyl dimethacrylate Skin Irritation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	25-55%
CAS: 5117-12-4	4-(1-oxo-2-propenyl)-morpholine ♦ Specific Target Organ Toxicity - Repeated Exposure 2, H373; ♦ Eye Damage 1, H318; ♦ Acute Toxicity - Oral 4, H302; Sensitization - Skin 1, H317	15-30%
CAS: 57472-68-1	Oxybis(methyl-2,1-ethanediyl) diacrylate Eye Damage 1, H318; Skin Irritation 2, H315; Sensitization - Skin 1, H317	15-30%
CAS: 15625-89-5	2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate Carcinogenicity 2, H351; 🚸 Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317	15-30%
CAS: 162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	0.2-2.0%
CAS: 1317-80-2	Rutile (TiO_2)	0.2-0.8%
CAS: 1333-86-4	Carbon black	0.02-0.05%

4 First-aid measures

Description of first aid measures

General description:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor. *After swallowing:* Immediately call a doctor.

Most important symptoms and effects, both acute and delayed No further relevant information available.

5 Fire-fighting measures

Suitable extinguishing agents: Use fire fighting measures that suit the environment.

Special hazards arising from the substance or mixture: During heating or in case of fire poisonous gases are produced.

Special protective equipment and precautions for firefighters Protective equipment: Mouth respiratory protective device.



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6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.

Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent.

Dispose contaminated material as waste according to section 2. Ensure adequate ventilation

7 Handling and storage

Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. For the general occupational hygienic measures refer to Section 8. Information about protection against explosions and fires: Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and receptacles: No special requirements. **Information about storage in one common storage facility:** Store away from

foodstuffs. Store away from

8 Exposure contro	ls/personal	protection
-------------------	-------------	------------

Components with limit values that require monitoring at the workplace: CAS: 15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate (15-30%)

WEEL (USA)	Long-term value: 1 mg/m ³	
	Skin	
CAS: 1333-86-4 Carbon black (0.02-0.05%)		
PEL (USA)	Long-term value: 3.5 mg/m ³	
REL (USA)	Long-term value: 3.5* mg/m ³	
	*0.1 in presence of PAHs;See Pocket Guide Apps.A+C	
TLV (USA)	Long-term value: 3* mg/m ³	
	*inhalable fraction, A3	

Regulatory information

WEEL (USA): Guide to Occupational Exposure Values (AIHA WEELs) PEL (USA): Guide to Occupational Exposure Values (OSHA PELs) REL (USA): Guide to Occupational Exposure Values (NIOSH RELs) TLV (USA): Guide to Occupational Exposure Values (TLV)

Additional information: The lists that were valid during the creation were used as basis.

Based on the composition shown in Section 3, the following measures are suggested for

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Appropriate engineering controls: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin. See Section 7 for information about design of technical facilities.

Individual protection measures, such as personal protective equipment Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Hand protection:



Protective gloves

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

General Information		
Appearance:		
Form:	Liquid	
Color:	Beige	
· Odor:	Acrylic-like	
Odor threshold:	Not available	
pH-value:	Not available	
Change in condition		
Melting point/Freezing point:	Not available	
Initial boiling point and boiling r	range: Not available	
Flash point:	Not available	
Flammability (solid, gas):	Not available	
• Auto-Ignition temperature:	Not available	



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· Decomposition temperature:	Not available	
· Lower and upper explosion limit		
Lower:	Not available	
Upper:	Not available	
· Vapor pressure:	Not available	
· Density:	Not available	
· Relative density:	Not available	
· Vapor density:	Not available	
· Evaporation rate:	Not available	
· Solubility in / Miscibility with		
Water:	Not available	
· Partition coefficient (n-octanol/water):	Not available	
· Viscosity:		
Dynamic:	Not available	
Kinematic:	Not available	
• Other information	No further relevant information available.	

10 Stability and reactivity

Reactivity: No further relevant information available.

Chemical stability: No further relevant information available.

Possibility of hazardous reactions: No dangerous reactions known.

Conditions to avoid: No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Acute toxicity: Harmful if swallowed.

· LD/LC50 values that are relevant for classification:

CAS: 15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

Oral LD50 2,840 mg/kg (rat)

CAS: 1333-86-4 Carbon black

Oral LD50 15,400 mg/kg (rat)

Dermal LD50 3,000 mg/kg (rabbit)

Skin corrosion/irritation: Irritant to skin and mucous membranes.

Serious eye damage/irritation: Strong irritant with the danger of severe eye injury. Respiratory or skin sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

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· Carcinogenic categories	
· IARC (International Agency for Research on Cancer)	
15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	2B
1317-80-2 Rutile (TiO ₂)	2B
1333-86-4 Carbon black	2B
NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	

12 Ecological information

Toxicity

Aquatic toxicity: No further relevant information available.

Persistence and degradability: No further relevant information available.

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Other adverse effects No further relevant information available.

13 Disposal considerations

Waste treatment methods **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

UN-Number DOT, IMDG, IATA	UN3082
UN proper shipping name	
DOT	Environmentally hazardous substance, liquid, n.o.s. (2-ethyl-2
	[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl
	diacrylate), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
	N.O.S. (2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl
	diacrylate)



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Transport hazard class(es)	
DOT, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles
Label	9
Packing group	
DOT	Not applicable
IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	Yes
	Yes (DOT)
	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
Special precautions for user	Warning: Miscellaneous dangerous substances and articles
EMS Number:	F- A , S - F
Stowage Category	A
Transport in bulk according to Annex I	II of
MARPOL73/78 and the IBC Code	Not applicable
Transport/Additional information:	
DOT	
Remarks:	Special marking with the symbol (fish and tree).
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
0	LIQUID, N. O. S. (2 -ETHYL-2 -[[(1 -OXOALLYL)OXY]
	METHYL]-1,3-PROPANEDIYL DIACRYLATE), 9, III

15 Regulatory information

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

Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
None of the ingredients is listed.	
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Proposition 65	
Chamical be	

• Chemicals known to cause cancer:

15625-89-5 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

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1333-86-4 Carbon black	
• Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
· Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
· Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
· New Jersey Right-to-Know List:	
1333-86-4 Carbon black	
New Jersey Special Hazardous Substance List:	
1333-86-4 Carbon black	CA
Pennsylvania Right-to-Know List:	
1317-80-2 Rutile (TiO ₂)	
Pennsylvania Special Hazardous Substance List:	
None of the ingredients is listed.	
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
1333-86-4 Carbon black	A4
NIOSH-Ca (National Institute for Occupational Safety and Health)	· · · · ·
1333-86-4 Carbon black	

16 Other information

· Relevant hazard statements

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.

The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

• Date of preparation / last revision 04/30/2024

• Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association

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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	
NIOSH: National Institute for	
Occupational Safety OSHA: Occupational Safety &	
Health	
Acute Toxicity - Oral 4: Acute toxicity –	
Category 4 Skin Irritation 2: Skin corrosion/irritation –	
Category 2	
Eye Damage 1: Serious eye damage/eye irritation –	
Category 1 Eye Irritation 2A: Serious eye damage/eye irritation –	
Category 2A Sensitization - Skin 1: Skin sensitisation – Category 1	
Sensitization - Skin 1A: Skin sensitisation – Category 1A	
Carcinogenicity 2: Carcinogenicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Categor	<i>y</i>
3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category	2 ************************************