

Revision Number: 001.1 Issue date: 05/08/2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Nexa3D xPEEK147 IDH number: Product type/use: Light curing Item number: MO147-71-003 Restriction of Use: None identified Region: **United States**

Company address:

Nexa3D

1923 Eastman Ave, Suite 200Ventura, CA 93003

Contact information: Telephone: 1-805-465-9001 EMERGENCY TELEPHONE: ChemTel

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MIS3892732

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This product contains an ingredient for which a Significant New Use Rule (SNUR) has been promulgated by the US EPA under the Toxic Substances Control Act (TSCA). Specific restrictions and requirements are listed under 40 CFR 721.8485.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE DAMAGE.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
SKIN SENSITIZATION	1
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been

read and understood. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear

protective gloves, clothing, eye and face protection.

IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several Response:

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. Take

off contaminated clothing.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s) **CAS Number** Percentage^{*}

Urethane acrylate	Proprietary	30 - 60
Acrylic ester	Proprietary	30 - 60
2-Propenoic acid, 2-methyl-, (octahydro- 4,7-methano-1H-indene-5- diyl)bis(methylene) ester	43048-08-4	10 - 30
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	75980-60-8	0.1 - 1
Triacrylate ester	Proprietary	0.1 - 1
Mixture of less 3-(4-(2-Hydroxy-2- methylpropionyl)phenyl)-1,1,3- trimethylindan-6-yl 2-hydroxyprop-2yl ketone and 3-(4-(2-Hydroxy-2-m	163702-01-0	0.1 - 1

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Wash clothing before reuse. Get medical

attention.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Uncontrolled polymerization may occur at high temperatures resulting in

explosions or rupture of storage containers.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to

prevent entry into water system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container closed. Refer to Section 8.

Storage: Keep in a cool, well ventilated area away from heat, sparks and open flame.

Keep container tightly closed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Urethane acrylate	None	None	None	None
Acrylic ester	None	None	None	None
2-Propenoic acid, 2-methyl-, (octahydro- 4,7-methano-1H-indene-5- diyl)bis(methylene) ester	None	None	None	None
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	None	None	None	None
Triacrylate ester	None	None	None	None
Mixture of less 3-(4-(2-Hydroxy-2- methylpropionyl)phenyl)-1,1,3- trimethylindan-6-yl 2-hydroxyprop-2yl ketone and 3-(4-(2-Hydroxy-2-m	None	None	None	None

Engineering controls: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

Skin protection:Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact. Neoprene gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Black Odor: Acrylate Odor threshold: Not available. pH: Not available. Vapor pressure: Not available. Boiling point/range: Not available. Melting point/ range: Not available. Specific gravity: 1.16 Vapor density: Not available. > 93 °C (> 199.4 °F) Flash point: Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability: Not applicable **Evaporation rate:** Not available. Solubility in water: Not available. Partition coefficient (n-octanol/water): Not available. **VOC** content: Not available. Viscosity: Not available. **Decomposition temperature:** Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: May occur. Rapid polymerization may generate excessive heat and pressure.

Hazardous decomposition

products:

Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.

Incompatible materials: Strong reducing agents. Free radical initiators. Inert gases. Oxygen scavengers. Strong

oxidizing agents. Amines, strong alkalies Reactive metals. Peroxides. Alcohols. Copper.

Copper alloys. Carbon steel. Iron. Rust. Strong bases.

Reactivity: Not available.

Conditions to avoid: Extremes of temperature and direct sunlight. Heat, flames, sparks and other sources of

ignition. Store away from incompatible materials. UV light. Loss of dissolved air.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.

Breathing high vapor concentrations may produce anesthetic effects, nausea, dizziness,

headache, weakness, peripheral drowsiness.

Skin contact: Causes skin irritation. May cause allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Urethane acrylate	None	No Data
Acrylic ester	None	No Records
2-Propenoic acid, 2-methyl-, (octahydro- 4,7-methano-1H-indene-5- diyl)bis(methylene) ester	None	No Data
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	None	No Records
Triacrylate ester	None	Allergen, Irritant
Mixture of less 3-(4-(2-Hydroxy-2- methylpropionyl)phenyl)-1,1,3- trimethylindan-6-yl 2-hydroxyprop-2yl ketone and 3-(4-(2-Hydroxy-2-m	None	No Data

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Urethane acrylate	No	No	No
Acrylic ester	No	No	No
2-Propenoic acid, 2-methyl-, (octahydro- 4,7-methano-1H-indene-5- diyl)bis(methylene) ester	No	No	No
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	No	No	No
Triacrylate ester	No	No	No
Mixture of less 3-(4-(2-Hydroxy-2- methylpropionyl)phenyl)-1,1,3- trimethylindan-6-yl 2-hydroxyprop-2yl ketone and 3-(4-(2-Hydroxy-2-m	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number:Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Urethane dimethacrylate)

Hazard class or division:

Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Urethane

dimethacrylate)
Hazard class or division:

Identification number: UN 3082

Packing group:

Marine pollutant: Urethane dimethacrylate

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed as active or are exempt from listing on the Toxic Substances

Control Act (TSCA) inventory.

TSCA 5 (a) (2) SNUR: This product contains an ingredient for which a Significant New Use Rule (SNUR) has

been promulgated by the US EPA under the Toxic Substances Control Act (TSCA).

Specific restrictions and requirements are listed under 40 CFR 721.8485.

TSCA 12 (b) Export Notification: 2-Propenoic acid, 2-methyl-, (octahydro-4,7-methano-1H-indene-5-diyl)bis(methylene)

ester (CAS# 43048-08-4).

CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:

None above reporting de minimis.
None above reporting de minimis.

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This

product contains a chemical known to the State of California to cause birth defects or other

reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 1

Prepared by: Product Safety and Regulatory Affairs

Issue date: 05/08/2020

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