HENRY SCHEIN®
DENTAL

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Material Safety Data Sheet Cover-Sheet – This page provides additional New Zealand specific information for this product and must be read in conjunction with the Safety Data Sheet (SDS) attached

Product Name:	Alpha Black Resin V1
Manufacturer:	Formlabs, Inc
SDS Expiry:	1 July 2031
Supplier Details:	Henry Schein New Zealand 243-249 Bush Road, Rosedale, Auckland, 0632 PO Box 101 140, North Shore, Auckland 0745 Ph. 0800 808 855 www.henryschein.co.nz
Emergency Contacts:	Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours) Phone 111 for Fire, Ambulance or Police
HSNO Class/Category:	6.3A, 8.3A, 6.5B
HSNO Group Standard:	Dental Products Subsidiary Hazard Group Standard 2020 HSR002558
Statements/Pictograms:	As per attached Safety Data Sheet (SDS)
Date Prepared:	This coversheet was prepared – October 2026

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Alpha Black Resin V1

SECTION 1: Identification

Product Identifier

Product Name: Alpha Black Resin V1
Product code: FLAPBK01

Recommended Use of the Chemical and Restrictions on Use:

Recommended Uses: For use in Formlabs SLA Printers.
Restrictions on Use: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:
United States
Formlabs, Inc
35 Medford St
Suite 201 Somerville, MA 02143
+1 617 855 0762
sds@formlabs.com

Emergency Telephone Number:

United States
CHEMTREC
1-800-424-9300 (24/7)

SECTION 2: Hazard Identification

Classification of the chemical in accordance with paragraph (d) of § 1910.1200:

Skin irritation, category 2
Serious eye damage, category 1
Skin sensitization, category 1A

Label elements

Hazard Symbol(s):



Signal Word: Danger

Hazard statement(s):

H315 Causes skin irritation
H318 Causes serious eye damage
H317 May cause an allergic skin reaction

Precautionary Statement(s):

P264 Wash skin thoroughly after handling.
P280 Wear protective gloves, protective clothing and eye protection.
P261 Do not breathe mist, vapours or spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P501 Dispose of contents and container in accordance with federal, state and local regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: Trade Secret	Methacrylate Oligomer(s)	25-45
CAS Number: Trade Secret	Methacrylate Monomer(s)	25-45
CAS Number: 72869-86-4	Urethane dimethacrylate	10-20
CAS Number: Trade Secret	Acrylate Monomer(s)	10-20
CAS Number: 162881-26-7	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	<1

Additional information: No additional information

SECTION 4: First Aid Measures

Description of Necessary Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention

After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention

After Eye Contact:

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist

After Ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Skin contact may result in redness, pain, burning and inflammation
Eye contact may result in irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision
Dermal exposure may cause an allergic skin reaction. Symptoms may include irritation, redness, pain, rash, inflammation, itching, burning and dermatitis

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time)

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Immediate Medical Attention:

In case of eye contact, seek prompt medical attention while rinsing is continued

Special Treatment:

No additional information.

Notes for the Doctor:

Treat symptomatically

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam

Unsuitable Extinguishing Media:

Do not use water jet

Specific Hazards Arising From The Chemical:

Thermal decomposition may produce irritating/toxic fumes/gases

Special Protective Equipment and Precautions for Fire-Fighters

Special Protective Equipment:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA)

Special precautions

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of

ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

No occupational exposure limits noted for the ingredient(s).

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Individual Protection Measures, Such as Personal Protective Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical state	Liquid
Color	Black
Odor (includes odor threshold)	Characteristic acrylate
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	> 100°C
Flammability	Not flammable
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	> 93.5°C
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.

pH	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Vapor pressure (includes evaporation rate)	Not determined or not available.
Density and/or relative density	1.08 gm/cm3
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

Other Information

Dynamic Viscosity	650 cP @ 25°C

SECTION 10: Stability and Reactivity

Reactivity:
Not reactive under recommended handling and storage conditions.

Chemical Stability:
Stable under recommended handling and storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies:
Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:
Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.
Avoid storage >38°C (100°F) and exposure to light/direct sunlight and heat.

Incompatible Materials:
Polymerization initiators, including peroxides, strong oxidizing agents, alcohols, copper, copper alloys, carbon steel, iron, rust, and strong bases.

Hazardous Decomposition Products:
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Methacrylate Monomer(s)	oral	LD50 Rat: 5564 mg/kg
	dermal	LD50 Rabbit: >5000 mg/kg
Urethane dimethacrylate	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg
Methacrylate Oligomer(s)	oral	LD50 Rat: >5110 mg/kg
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	oral	LD50 Rat: >2000 mg/kg
	dermal	LD50 Rat: >2000 mg/kg

Skin Corrosion/Irritation

Assessment:
Causes skin irritation.

Product Data:
No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment:

Causes serious eye damage.

Product Data:

No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	Causes serious eye irritation.

Respiratory or Skin Sensitization

Assessment:

May cause an allergic skin reaction.

Product Data:

No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	May cause an allergic skin reaction.
Urethane dimethacrylate	May cause an allergic skin reaction.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	May cause an allergic skin reaction.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Methacrylate Monomer(s)	Not Applicable
Urethane dimethacrylate	Not Applicable
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Methacrylate Monomer(s)	Not Applicable
Urethane dimethacrylate	Not Applicable
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Interactive effects:

No additional information.

Other Information:

No additional information.

SECTION 12: Ecological Information

Ecotoxicity

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	Fish LC50 Oryzias latipes: >100 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: 380 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Algae: 345 mg/L (72 hr [growth rate])
Urethane dimethacrylate	Fish LC50 Danio rerio: 10.1 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: > 1.2 mg/L (48 hr [mobility])
	Aquatic Plants EC50 Desmodesmus subspicatus: > 0.68 mg/L (72 hr [growth rate])
Methacrylate Oligomer(s)	Fish LC50 Poecilia reticulata: ≥ 100 mg/L (96 hr)

Name	Result
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Aquatic Plants EC50 Desmodesmus subspicatus: >0.26 mg/L (72 hr [growth rate, biomass])
	Fish LC50 Danio rerio: >0.09 mg/L (96 hr)
	Aquatic Invertebrates EC50 Daphnia magna: >1.175 mg/L (48 hr [mobility])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	Aquatic Invertebrates NOEC Daphnia magna: 24.1 mg/L (21 d [reproduction])
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Aquatic Invertebrates NOEC Daphnia magna: >= 0.0081 mg/L (21d [reproduction])

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	The substance is readily biodegradable. 92 - 100% degradation, measured by Oxygen consumption, after 14 days.
Urethane dimethacrylate	The substance is not readily biodegradable. 22% degradation in water, measured by CO2 evolution, after 28 days.
Methacrylate Oligomer(s)	The substance is not readily biodegradable.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	The substance is not readily biodegradable. 1% degradation in water, measured by CO2 evolution after 29 days.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	The substance has low potential to bioaccumulate (log kow: <=3).
Urethane dimethacrylate	The substance has the potential to bioaccumulate (log Pow: 3.39 at 20 °C).
Methacrylate Oligomer(s)	The substance has the potential to bioaccumulate (BCF=292.4, Calculation method).
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	The substance is not expected to bioaccumulate (BCF: < 5, aquatic species: Cyprinus carpio).

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Methacrylate Monomer(s)	This substance has high water solubility (>100 g/L at 20 °C), a low vapor pressure (0.08 hPa at 20 °C), and low log Kow (0.42 at 25 °C). The substance has a low potential for adsorption to soil or sediments.

Name	Result
Urethane dimethacrylate	The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc: 3.655 dimensionless at 25 °C, QSAR substance data).
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	The substance is slightly mobile, therefore, adsorption to soil and sediment is expected (log Koc: 3.85).

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Methacrylate Monomer(s)	The substance is not PBT.
Urethane dimethacrylate	The substance is not PBT.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	The substance is not PBT.

vPvB assessment:

Methacrylate Monomer(s)	The substance is not vPvB.
Urethane dimethacrylate	The substance is not vPvB.
Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	The substance is not vPvB.

Other Adverse Effects: No additional information.

SECTION 13: Disposal Considerations

Disposal Methods:

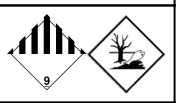
As supplied, this material is not considered a hazardous waste under RCRA. If the material has been altered or contaminated, or it has exceeded its recommended shelf life, the guidance may be inapplicable. Do not discharge into public wastewater or surface waters. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

Contaminated packaging:

Dispose contaminated packages in a safe manner in accordance with local and national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	UN 3082
UN Proper Shipping Name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate
UN Transport Hazard Class(es)	9 
Packing Group	III
Environmental Hazards	Marine Pollutant
Special Precautions for User	None

Additional Information	49 CFR 171.4(c)(2) Not regulated as dangerous goods when transported in single or inner packaging of 5 L or less for liquids or net mass of 5 Kg or less for solids provided the packaging meets the requirements of 49 CFR 173.24(a).

International Maritime Dangerous Goods (IMDG)

UN Number	UN 3082
UN Proper Shipping Name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate
UN Transport Hazard Class(es)	9 
Packing Group	III
Environmental Hazards	None
Special Precautions for User	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L provided the packaging meets the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	UN 3082
UN Proper Shipping Name	Environmentally hazardous liquid, N.O.S. Urethane dimethacrylate
UN Transport Hazard Class(es)	9 
Packing Group	III
Environmental Hazards	Marine Pollutant
Special Precautions for User	None
Additional Information	This product is not regulated as a dangerous good when transported in sizes of ≤5L provided the packaging meet the general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	Not Applicable
Ship Type	Not Applicable
Pollution Category	Not Applicable

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5):

Trade Secret	Methacrylate Monomer(s)	Listed
72869-86-4	Urethane dimethacrylate	Not Listed
162881-26-7	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Not Listed

Export Notification under TSCA Section 12(b):

Trade Secret	Methacrylate Monomer(s)	Listed
72869-86-4	Urethane dimethacrylate	Not Listed
162881-26-7	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Not Listed

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.
SARA Section 313 Toxic Chemicals: None of the ingredients are listed.
CERCLA: None of the ingredients are listed.
RCRA: None of the ingredients are listed.
Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.
Massachusetts Right to Know: None of the ingredients are listed.
New Jersey Right to Know: None of the ingredients are listed.
New York Right to Know: None of the ingredients are listed.
Pennsylvania Right to Know: None of the ingredients are listed.
California Proposition 65: None of the ingredients are listed.
Additional information: No additional information.

SECTION 16: Other Information

Disclaimer:

This product has been classified in accordance with OSHA HCS 2024 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-1-1
HMIS: 2-1-1
Initial Preparation Date: 07.01.2026
Revision Notes:

Revision Date	Notes
2026-07-01	Version 1.0

End of Safety Data Sheet