



SAFETY DATA SHEET (SDS) PHOTO-BASE / PHOTO-TRAY

1. IDENTIFICATION

Product Name: Photo-Base or Photo-Tray
Other Name or Code: 3051101, 3051102
Use: Light curing sheet for dental custom trays and base plates
Supplier Name: DenPlus Inc.
Address: 333-M Chemin du Tremblay
Boucherville, QC, Canada, J4B 7M1
Phone Number for Information: 450.641.1330
Emergency Phone Number: 613.996.6666
Anti-Poison Center of Quebec 1.800.463.5060

2. HAZARDS IDENTIFICATION

2.1 Classification

Skin sensitization – category 1 H317 May cause an allergic skin reaction
Aquatic – Chronic 2 H411 Toxic to aquatic life with long lasting effects

2.2 Label elements



Signal word: Warning

Hazard statements: H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements: P410 Protect from sunlight.
P333+P313 If skin irritation or rash occurs: get medical advice/attention.
P261 Avoid breathing dusts, fume, gas, mist, vapours, spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.

3. INFORMATION ON INGREDIENTS

Matrix of polyfunctional methacrylates, glass filler, photochemical initiators and petroleum jelly.

Hazardous ingredients	CAS	Concentration range (by weight)
Diurethane dimethacrylate	276-957-5	10 to 15 %
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	< 0.1 %

4. FIRST-AID MEASURES

4.1 Description of first aid measures

General information: Polymerized material is non-hazardous.

Inhalation	Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. Not applicable as all component have a boiling point over 250 °C.
Skin Contact	Wash immediately with polyethylene glycol, followed by plenty of water. If skin irritation or rash occurs, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation, consult a doctor.
Ingestion	Rinse mouth. Drink plenty of water. Obtain medical attention if ill effects occur.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None necessary.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

In case of fire, use water spray, carbon dioxide (CO₂), spray foam, dry powder.

5.2 Special hazards arising from the substance or mixture

Non flammable.

5.3 Advice for firefighters

A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas or fumes. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2 Environmental precautions

Avoid release to the environment, surface water, drains.

6.3 Methods and material for containment and cleaning up

Collect in containers for disposal.

6.4 Reference to other sections

See section: 7, 8, 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Provide adequate ventilation. Avoid generation of dust. Do not breathe dust. For use in dentistry only.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Protect from exposure to light. Natural ventilation is adequate.

Storage temperature (°C): Store not above 25°C.

Incompatible materials: No special measures are necessary.

7.3 Specific end use(s)

Production of light-cured dental custom trays and base plates.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters:

DNEL values

CAS	Hazardous Ingrédient	Exposure route	Effect	Value
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
Worker DNEL, long-term		Dermal	Systemic	0.233 mg/kg bw/day
Consumer DNEL, long-term		Inhalation	Systemic	0.145 mg/m ³
Consumer DNEL, long-term		Dermal	Systemic	0.0833 mg/kg bw/day
Consumer DNEL, long-term		oral	Systemic	0.0833 mg/kg bw/day

To date, no national critical limit values exist.

8.2 Exposure controls

Appropriate engineering controls

Use a suitable dust extraction when grinding the polymerized plate.

Eye/face protection	Wear eye/face protection. Safety spectacles/goggles/full face shield.
Skin protection	Use of gloves is recommended. Suitability of gloves should be confirmed with glove manufacturer.
Respiratory protection	In case of inadequate ventilation wear respiratory protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Paste
Color:	Pink or blue
Odor	Characteristic
pH (Value)	Not applicable
Melting Point (°C)	- 20
Initial boiling Point (°C)	200
Flash point (°C)	> 100
Flammability (solid, gas)	Not applicable
Flammable Limits	Not applicable
Vapor pressure (Pascal)	100 at 20°C
Vapor Density (Air=1)	Not applicable
Solubility (Water)	Insoluble
Solubility (Other)	Not applicable
Partition Coefficient (n-Octanol/water)	Not determined
Auto Ignition Temperature (°C)	445
Viscosity (mPa. s)	Not available
Oxidizing properties	Not oxidizing
Density (g/ml)	1.89
Solid content (%)	76.15

10. STABILITY AND REACTIVITY

10.1 Reactivity

Material will polymerize when exposed to daylight.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Avoid direct light.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

ATE mix tested	Exposure route	Species	Dose	Source
LD50	Oral	Rat	5000 mg/kg	
LD50	Dermal	Rat	2000 mg/kg	

CAS	Hazardous Ingredient			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide			
	Exposure route	Species	Dose	Source
LD50	Oral	Rat	> 5000 mg/kg	
	Inhalation	Data lacking		

Ingestion	Unlikely to be hazardous by ingestion.
Inhalation	Unlikely to be hazardous by inhalation.
Skin contact	May cause a skin irritation.
Eye contact	May cause an irritation.
Skin sensitization data	Diurethane dimethacrylate: May cause an allergic skin reaction.
Carcinogenic/mutagenic	Unlikely to be hazardous
Toxic effects for reproduction	Unlikely to be hazardous
STOT-single exposure	Unlikely to be hazardous
STOT= repeated exposure	Unlikely to be hazardous
Additional information	The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

12. ECOLOGICAL INFORMATION

12.1 Toxicity

The product is not ecotoxic.

CAS	Hazardous Ingredient		
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
Aquatic toxicity	Dose	Species	Source
Acute fish toxicity	LC50 6,53 mg/l (96 h)	Oryzias latipes	
Acute crustacea toxicity	EC50 3.53 mg/l (48 h)	Daphnia magna	OECD Guideline 202
Acute algae toxicity	ErC50 2.01 mg/l (72 h)	Pseudokirchneriella subcapitata	OECD 201

12.2 Persistence and degradability

This product has not been tested.

12.3 Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

Hazardous ingredients	CAS	Log Pow
Diurethane dimethacrylate	276-957-5	3
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	3.257

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

The product has not been tested.

12.6 Other adverse effects

None known.

13. DISPOSAL CONSIDERATIONS

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose in accordance with local regulations.

13.1 Waste treatment methods

May be disposed by landfill in accordance with local regulations.

14. TRANSPORTATION CONSIDERATIONS

Not classified as Dangerous for Transport.

14.1 UN number

Not applicable.

14.2 UN Proper Shipping Name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

15. REGULATORY INFORMATION

WHMIS 2015

Canadian Hazardous Products Regulations (SOR/2015-17)

Canadian Hazardous Products Act (R.S.C., 1985, c. H-3)

Hazardous Products Information Regulation (Quebec S-2.1, r. 8.1)

16. OTHER INFORMATION

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