SAFETY DATA SHEET (SDS)
DP-ORTHO-C

1. IDENTIFICATION

Product Name:	Acrylic resin DP-Ortho-C
Other Name or Code:	1091100, 1091200, 1091300 1091112, 1091212, 1091312 1091114, 1091214, 1091314 1091127, 1091227, 1091327
Use:	Orthodontic appliances
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
Combustible dust – Category 1

2.2 Label elements
Signal word: Warning

Hazard statement: May form combustible dust concentrations in air

3. INFORMATION ON INGREDIENTS

Polymer beads based on ethyl methacrylate containing residual peroxide.

Hazardous ingredients	CAS	Concentration range (by weight)
Dibenzoyl peroxide	000094-36-0	<1 %
Methyl methacrylate	000080-62-6	<1 %
Ethyl metacrylate	000097-63-2	<1 %

4. FIRST-AID MEASURES

4.1 Description of first aid measures

Inhalation	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
Skin Contact	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs, get medical attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if ill effects occur.
Ingestion	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Obtain medical attention if ill effects occur.

4.2 Most important symptoms and effects, both acute and delayed

Not applicable.

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 (CO_2), spray foam, dry powder. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Combustible but not readily ignited. Combustion or thermal decomposition will evolve toxic, irritant or flammable vapors. This product can form flammable dust clouds at elevated temperatures. The minimum ignition temperature of a dust cloud of a similar polymer has been measured at approximately 480 °C.

5.3 Advice for firefighters

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

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Caution – spillage may be slippery.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Collect in containers for disposal using approved dust respirator.

6.4 Reference to other sections

See sections: 8 and 13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not eat, drink or smoke at the work place.
Product as supplied: Avoid contact with eyes. Avoid prolonged skin contact. Unlikely to represent a dust hazard under normal handling conditions.
Dental resins are usually processed in conjunction with reactive monomers and this may require the use of a higher level of protection than the necessary for the polymer itself.

7.2 Conditions for safe storage, including any incompatibilities

Acrylic polymers are supplied in either bags or bulk containers. Keep containers in a clean, cool and dry area away from heat sources. Natural ventilation is adequate.
Storage temperature (°C): Ambient.
Incompatible materials: Polymer contains residual benzoyl peroxide. This may react with oxidizing agents, reducing agents, acids, bases and amines leading to decomposition.

7.3 Specific end use(s)

Production of dentures.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Substance	CAS No.	OSHA PEL TWA	ACGIH TWA	ACGIH STEL	Company Std. TWA	Company Std. STEL
Dibenzoyl peroxyde	000094-36-0	5 mg/m^3	5 mg/m^3(A4)			
Particulates (Total dust)		15 mg/m^3	10 mg/m^3			
Dust (Respirable dust)		5 mg/m^3	3 mg/m^3			
The following values apply to substances which may be evolved during thermal processing						
Methyl methacrylate	000080-62-6	100 ppm 410 mg/m^3	50 ppm (205 mg/m^3)	100 ppm (205 mg/m^3) SEN;A4	50 ppm	100 ppm
Ethyl metacrylate	000097-63-2				50 ppm	50 ppm

8.2 Exposure controls

Appropriate engineering controls
Do not eat, drink or smoke at the work place. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

Individual protection measures

Eye/face protection	Wear eye/face protection. Safety spectacles/goggles/full face shield.
Skin protection	Not normally required, however use of gloves is recommended. Suitability of gloves should be confirmed with glove manufacturer.
Respiratory protection	A suitable dust mask or dust respirator with filter type P3 or FFP3 may be appropriate. In the unlikely event of formation of particularly high levels of dust a self contained breathing apparatus may be appropriate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White or colored powder
Odor	Typically methacrylate
pH (Value)	Not applicable
Melting Range (°C)	150 - 230
Boiling Point (°C)	Not applicable
Flash Point (°C)	~ 390
Flammability (solid, gas)	Not applicable
Flammable Limits	Not applicable
Vapor pressure (Pascal)	Not applicable
Vapor Density (Air=1)	Not applicable
Solubility (Water)	Negligible
Solubility (Other)	Not applicable
Partition Coefficient (n-Octanol/water)	Not applicable
Auto Ignition Temperature (°C)	~ 465
Viscosity (mPa. s)	Not available
Explosive properties	Weakly to moderately explosive
Oxidizing properties	Not applicable
Density (g/ml)	1.1 – 1.18

10. STABILITY AND REACTIVITY

10.1 Reactivity
Non-reactive material.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
None known.

10.4 Conditions to avoid
Avoid dust generation.

10.5 Incompatible materials
Polymer contains residual benzoyl peroxide. This may react with oxidizing agents, reducing agents, acids, bases and amine leading to decomposition.

10.6 Hazardous decomposition products
Methyl methacrylate, n-butyl methacrylate, dibenzoyl peroxide, carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Ingestion	Low oral toxicity.
Inhalation	Unlikely to be hazardous by inhalation.
Skin contact	Unlikely to cause skin irritation.
Eye contact	Dust may cause irritation.

12. ECOLOGICAL INFORMATION

12.1 Toxicity
This product is predicted to have low toxicity to aquatic organisms.

12.2 Persistence and degradability
This product is non-biodegradable in soil. There is no evidence of degradation in soil and water.

12.3 Bioaccumulative potential
The product has low potential for bioaccumulation.

12.4 Mobility in soil
The product is predicted to have low mobility in soil.

12.5 Results of PBT and vPvB assessment
Not classified as PBT or vPvB.

12.6 Other adverse effects
None known.

13. DISPOSAL CONSIDERATIONS

The waste is considered to be non hazardous. Clean scrap may be reprocessed. Dispose in accordance with local regulations.

13.1 Waste treatment methods
May be disposed of 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 (SORS2015-17)
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

The following sections contain new statements : 3, 8, 16

Date of revision : February 13, 2026

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