

E.C. Safety Data Sheet in accordance with regulation 91/155/EEC

for the powder



Trade name:

BIOCRYL polymerIssue: 01.09.2009
Page: 1 of 5**1. Identification of the substance / preparation and the company****Information on the product****Trade name:** BIOCRYL polymer**Use / Purpose:** Orthodontic resin, self-curing acrylic, powder component of the 2-component acrylic system based on methyl methacrylate (powder and liquid), for the purpose of making orthodontic devices.**Information on the manufacturer**

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INGREDIENT (S)	CAS NUMBER	%
Polymer	9011-14-7	<99
Diethyl Phthalate	84-66-2	<20

3. Hazards Identification**PRIMARY ROUTES OF ENTRY:** Skin or Eyes, Inhalation of dusts.

Avoid inhalation of dust. Keep dust out of eyes to prevent possible irritation.

For Polymer: EFFECTS OF OVER EXPOSURE: OSHA classifies this material as Particulates, Not Otherwise Classified. Eyes, skin and respiratory tract may be irritated by gross overexposure to Particulates, Not Otherwise Classified, no matter how they are generated.**For Diethyl Phthalate:** Inhalation: Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties.

Reproductive: Possible teratogen.

Skin: Prolonged or repeated contact may cause redness, burning, drying, cracking and dermatitis. Persons with pre-existing skin disorders may be more susceptible to this material.

CARCINOGENICITY: None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

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EMERGENCY AND FIRST AID PROCEDURES:

- INHALATION:** Remove to fresh air. Get medical help if discomfort persists.
- EYES:** Flush with water for 15 minutes, including under eyelids. Get medical help if discomfort persists.
- SKIN:** Wash with soap and water. Get medical help if discomfort persists.
- INGESTION:** Do not induce vomiting. Drink plenty of water or milk IMMEDIATELY. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately.
- CLOTHING:** Remove contaminated clothing, wash thoroughly before reuse.

5. Fire-fighting measures

FLASH POINT: 304 °C (580 °F) FLAMMABLE LIMIT, AIR VOL % LOWER: NA
AUTOIGNITION TEMPERATURE: NE
UPPER: NA

EXTINGUISHER METHOD: Water, carbon dioxide, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust in air producing a fire hazard and possible explosion hazard if exposed to ignition source.

FIRE AND EXPLOSION HAZARDS: For bulk size. Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

EXPLOSION HAZARD: Firefighters should wear self-contained breathing apparatus.

SENSITIVE TO MECHANICAL IMPACT: For Polymer: No

SENSITIVE TO STATIC DISCHARGE: For Polymer: No

6. Accidental release measures

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (eg. goggles, gloves). Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse.

7. Handling and storage

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping. Store containers in a cool, dry location, away from direct sunlight, other light sources, or sources of intense heat. Keep only in original container. Keep container closed to prevent water absorption and contamination.

INDUSTRIAL HYGIENE PRACTICES: Avoid prolonged contact with the product. Use in a well-ventilated location (eg. local exhaust ventilations, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

STORAGE TEMPERATURE: Preferably not exceeding 35 °C.

8. Exposure controls and personal protection

VENTILATION: When working with large quantities of product provide adequate ventilation (eg. local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.

RESPIRATORY PROTECTION: No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR SS 1910.134, or applicable U.S. state regulations, or the appropriate standards of Canada, it's provinces, EC member states, or Australia.

VENTILATION: Local exhaust at processing equipment.

EYE PROTECTION: Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to U.S. OSHA 29CFR SS1910.133. Canadian standards, or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.

PROTECTIVE GLOVES: If anticipated that prolonged & repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR SS 1910.138, the appropriate standards of Canada, of the EC member states.

9. Physical and chemical properties

BOILING POINT:	NA	SPECIFIC GRAVITY (H ² O=1):	ND
VAPOR PRESSURE:	NA	PERCENT VOLATILE W/W%:	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE:	NA
SOLUBILITY IN WATER:	Insoluble	APPERANCE AND ODOR:	Fine clear to pigmented powder. Faint odor in bulk

10. Stability and reactivity

STABILITY: Stable

CONDITIONS TO AVOID: Heating above 240 °C (464 °F)

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

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HAZARDOUS DECOMPOSITION PRODUCTS: Methacrylate monomer and oxides of carbon when burned.
HAZARDOUS POLYMERIZATION: Will not occur.

11. Toxicological information

TOXICITY DATA: This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. This data has not been presented in this document.

MUTAGENICITY DATA: For Polymer – None listed.

REPRODUCTIVE TOXICITY DATA: For Polymer – None listed.

12. Ecological information

AQUATIC TOXICITY: There is no specific data available for this product, however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

ENVIRONMENTAL FATE: There is no specific data available for this product.

13. Disposal considerations

WASTE DISPOSAL METHODS: Dispose of properly in accordance with federal, state and local regulations.

DISPOSAL OF EMPTY CONTAINERS: For bulk only. Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers. Dispose of all empty containers properly in accordance with federal, state and local regulations.

14. Transport information

DOT/UN SHIPPING NAME: Polymer, NOI
Non-hazardous

15. Regulatory information

Risk Phrases: R36/37/38 Irritant to eyes, respiratory system and skin.

Safety Phrases: S3 Keep in a cool place
S7 Keep container tightly closed

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- S9 Keep container in a well-ventilated place
- S20 When using do not eat or drink
- S29 Do not empty into drains
- S37/39 Wear suitable gloves and eye/face protection

CANADIAN REGULATIONS:

WHMIS: This product has been classified in accordance with the hazardous criteria of the CPR and the MSDS contains all the information required by the CPR. All of the components of this material are listed on the Canadian DSL.

TSCA: For use in FDA regulated products only

16. Other information

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

HEALTH = 1

FLAMMABILITY = 1

REACTIVITY = 0

This data sheet prepared in accordance with Directive 91/155/EEC.

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