

Kerr Italia SpA

MATERIAL SAFETY DATA SHEET

in accordance with communitary directive 2001/58/EC

Section I - Identification of Product and Company

Trade Product Name: FILL IN Base Paste	Preparation/Revision Date: 10/03
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Company Name: Kerr Corporation	Emergency phone: (+ 41)-91-61.00.639
Company Address: 1717 West Collins Avenue, Orange – CA – 92867 USA	Information phone: 00-800-41-050-505

Section II - Composition/Information on Ingredients

HAZARDOUS INGREDIENTS	%	SYMBOL	R	CAS N.	EINECS N.
Uncured Methacrylate Ester Monomers	25-35	Xn	22-36/37/38	65256-52-2	N/A
Dibutyl Phtalate (DBP)	< 5	T; N	61-50-62	84-74-2	201-557-4
Methyl Methacrylate (MMA)	2-4	F, Xi	11-36/37/38-43	80-62-6	201-297-1

Section III - Hazards Identification

HAZARD CLASSIFICATION	Toxic (for reproduction); Sensitizing
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Section IV - First Aid Measures

Treatment for eye contact: Flush with water for 15 minutes, including under eyelids.
Treatment for skin contact: Wash thoroughly with soap and water.
Treatment for inhalation (breathing): Remove to fresh air. Get medical attention if discomfort persists.
Treatment for ingestion (swallowing): Rinse mouth out with water. Do not induce vomiting. Seek medical attention.

Section V - Firefighting Measures

Suitable extinguishing media: Chemical Foam, carbon dioxide, dry chemicals.
Forbidden extinguishing media: Direct stream of water.
Special fire fighting measures: Wear self-contained breathing apparatus.
Unusual fire and explosion hazards: Heat can cause polymerization with rapid release of energy.
Special protection equipment: Sealed overall against liquids and gases.

Section VI - Accidental Release Measures

Personal Precautions: In case of release, use self contained breathing apparatus and protective clothing.
Environmental Precautions: Keep spilled material out of sewers.
Reclaiming Methods: Absorb spills with inert material - keep spilled material out of sewers.

Section VII - Handling and Storage

Handling Precautions: Adopt the same precautions listed in section VIII.
Precautions in case of Fire and Explosion: Evacuate area and wear respiratory and protective clothing.
Storage Conditions: Store in a cool and dry place, away from heat and ignition source.
Suggested container(s): Use containers provided by manufacturer.
Indication for Combined Storage: Avoid contact with reducing and oxidizing agents, peroxides and amines.
Other Precautions: Use according to directions.

Section VIII - Exposure controls/personal protection

Precautionary Measures	<p style="text-align: center;"><u>Ventilation</u></p> <p>Local Exhaust Ventilation: Good general ventilation should be sufficient to control airborne levels of vapors released by uncured material.</p> <p>Special Ventilation: None.</p> <p>Mechanical (General) Ventilation: Good general ventilation recommended.</p> <p>Other Ventilation: None.</p>
Limits	TLV: 5 mg/m³ (DBP); 100 ppm (MMA); PEL: 5 mg/m³ (DBP); 100 ppm (MMA)
Respiratory Protection	Avoid prolonged or excessive breathing of vapors of uncured material. Use self-contained breathing apparatus.
Hands Protection	Protective gloves recommended when contacting uncured material.
Eyes Protection	Safety glasses recommended.
Skin Protection	Adopt above-mentioned precautions.
Other Protective Equipments:	Handle in accordance with good personal hygiene and safety practices. These practices include avoiding unnecessary exposure.

Section IX - Physical and Chemical Properties

Boiling Point: Not determined (N/D) Vapor Pressure: N/D		Melting Point: N/D Specific Gravity: ~ 2,0 g/ml	
Evaporation Rate (n-butane= 1): N/D		Vapor Density (air= 1): N/D	
Solubility in Water: Insoluble			
Appearance and Odor (Physical Form): Tooth-colored pastes with fruity ester-like odor.			
Flash Point: N/D	Upper explosivity limit: N/D		Lower explosivity limit: N/D

Section X - Stability and Reactivity

Stability: Stable if stored as directed.
Conditions to avoid: Heat, aging and sources of contamination.
Incompatibility (Materials to Avoid): Reducing and oxidizing agents, peroxides and amines.
Hazardous Decomposition Products: Carbon oxides.
Hazardous Polymerization Products: May occur

Section XI - Toxicological Information

Carcinogenic\Teratogenic: Yes, possible teratogenic effects (Dibutyl Phthalate)
<p style="text-align: center;"><u>Effects and Hazards of Overexposure (Acute and Chronic)</u></p> <p>Effects and Hazards of Skin Contact: Prolonged or repeated exposure to uncured material may cause irritation or skin rash especially in sensitive individuals.</p> <p>Effects and Hazards of Eye Contact: May cause irritation and damage if not removed promptly.</p> <p>Effects and Hazards of Inhalation (Breathing): Prolonged or excessive inhalation may cause irritation to respiratory tract.</p> <p>Effects and Hazards of Ingestion (Swallowing): Uncured material may be harmful if swallowed.</p> <p>Effects for Prolonged Exposure: See section XVI.</p>

Section XII - Ecological Information

There is no specific information on the product. Use according to good working practices, avoiding release of the product into environment.

Environmental effects for Dibutylphthalate:

Aquatic toxicity: Flathead minnow LC₅₀ (96hrs): 1-10 µl/l.; Water Flea LC₅₀ (96hrs): 1-10 µl/l.

Oxygen Demand Data: ThOD: 2.24 g/g; COD: 1.71 g/g; BOD: 0.34 – 0.43 g/g

Plant effects: No adverse effects on germination or seedlings.

Information on Methyl Methacrylate Monomer:

Biodegradability: Easily biodegradable (94%), OCSE 301 C, 14 d

Eco-toxicity effects

Air pollution: Threshold perceptibility of odor is about 5 ppm.

Aquatic toxicity: Valuation method WGK (from 0 to 3): 1 (German classification)

Bacterial CE₀ 100mg/l (pseudomonas putida)

Fishes: CL₅₀ > 79mg/l (oncorhynchus mykiss, iridea trout, OCSE 203, GLP, 96 hours)

Daphnia: CE₅₀ 69mg/l (daphnia magna, OCSE 202, 48hrs);

NOEC 37mg/l (daphnia magna, OCSE 202 part II, sliding, 21 d)

Algas: CE₃ 37mg/l (scenedesmus quadricauda, DIN 38412 part IX, 8 d

CE₅₀ 170mg/l (selenastrum capricornutum, OCSE 201, 96 hours)

Section XIII - Disposal Considerations

Absorb with inert material. Incinerate material in proper equipment. Dispose of in accordance with local regulations.

Section XIV - Transport Information

SEA TRANSPORTATION																			
IMCO Number				N/A															
UN Number				N/A															
Substance(s) determining hazard				None															
AIR TRANSPORTATION																			
ICAO/IATA Class				N/A															
Substance(s) determining hazard				None															
TRANSPORTATION BY ROAD/RAILWAY																			
RID/ADR		N/A		Item		N/A		Hazard Identification		N/A		Substance		N/A		Hazar		N/A	
Class				Number				Number				Identification Number				d			
																Label			

Section XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EC DIRECTIVES	
HAZARD IDENTIFICATION SYMBOL	T (Reproduction: Category 2)
R Sentences	
61	May cause harm to the unborn child
22	Harmful if swallowed
36/37/38	Irritating to eyes, respiratory system and skin.
43	May cause sensitization by skin contact
S Sentences	
53	Avoid exposure – see instructions before use
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61	Avoid release to the environment. Refer to special instructions/safety data sheets.
16	Keep away from sources of ignition – No smoking.
Ingredients determining the label	DBP, Uncured methacrylate ester monomers and MMA.

Section XVI - Other Information

DBP	LD ₅₀ (acute oral rat)	8000 mg/Kg
	LD ₅₀ (dermal rabbit)	> 20ml/Kg
	Eye irritation human	Slight
	TDLo (acute oral CNS system man)	140mg/Kg
	Feeding study	Rats were fed a diet containing phthalate for 4 months which showed slower weight gain, body/organ ratio showed small testes and increased liver weights with all other studies giving normal results. The relevance of these findings to humans is uncertain.
MMA	LD ₅₀ (oral rat)	7872 mg/Kg
	LD ₅₀ (skin rabbit)	> 9400 mg/Kg
	LC ₅₀ (inhalation rat)	7093 ppm/4hours

CAUTION: PRODUCT FOR PROFESSIONAL USE

The information on this Safety Sheet is based on presently available data and to our best knowledge for the correct handling of the product under normal conditions. Any use of this product in any way not indicated on this Sheet or the use of this product together with any other process/procedure will be exclusively under the user's responsibility.