

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: Optibond ALL-IN-ONE (Self Etching Adhesive)	Preparation/Revision Date: 08/06
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Company Name: Kerr Corporation	Emergency phone: (+41)-91-61.00.639
Company Address: 1717 W. Collins Avenue Orange CA 92867 U.S.A.	Information phone: 00-800-41-050-505

Section II - Composition/Information on Ingredients

HAZARDOUS INGREDIENTS	%	SYMBOL	R	CAS N.	EINECS N.
Acetone	35-45	F, Xi	11-36-66-67	67-64-1	200-662-2
Ethyl Alcohol	4-9	F	11	64-17-5	200-578-6
Uncured Methacrylate Ester Monomers	33-43	N/A	N/A	109-16-0	203-652-6

Section III - Hazards Identification

HAZARD CLASSIFICATION	Highly flammable; Irritant
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Section IV - First Aid Measures

Treatment for eye contact: Flush thoroughly with water for 15 minutes. If irritation persists, seek medical attention.
Treatment for skin contact: Wash skin thoroughly with soap and water. If irritation persists, seek medical attention.
Treatment for inhalation (breathing): Remove to fresh air. If irritation persists, seek medical attention.
Treatment for ingestion (swallowing): Do not give liquid if persons is unconscious. Seek medical attention.

Section V - Firefighting Measures

Suitable extinguishing media: Carbon dioxide, alcohol foam, and dry chemical.
Forbidden extinguishing media: Not determined.
Special firefighting measures: Wear self contained breathing apparatus.
Unusual fire and explosion hazards: May be dangerous when exposed to heat or open flame.
Special protection equipment: Sealed overall against liquids and gases.

Section VI - Accidental Release Measures

Personal Precautions: Use precautions listed in other sections.
Environmental Precautions: Material should not be allowed to drain to sewers.
Reclaiming Methods: Extinguish all ignition sources. Absorb spills with inert material and transfer to a suitable container for disposal.

Section VII - Handling and Storage

Handling Precautions: Use precautions listed in Section VIII.
Precautions in case of Fire and Explosion: Extinguish all ignition sources.
Storage Conditions: Store in a cool, dry place, away from ignition sources. Keep container closed when not in use.
Suggested container(s): Metal containers.
Indication for Combined Storage: Avoid contact with acids.
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: Sufficient to keep concentration below 100ppm.. Special Ventilation: None. Mechanical (General) Ventilation: Recommended. Other Ventilation: None.</p>
Limits	<p>TLV: 500 ppm (Acetone); 1000 ppm (Ethyl Alcohol); PEL: 750 ppm (Acetone); 1000 ppm (Ethyl Alcohol).</p>
Respiratory Protection	Avoid inhalation of vapors. Choose one among following breathing apparatuses according to concentration of polluting agents in air: respirators semi-mask for organic vapors or with pre-filter for dust/fog.
Hands Protection	Use impervious gloves.
Eyes Protection	Safety glasses with side or face shield.
Skin Protection	Handle in accordance with good personal hygiene practices. Avoid unnecessary exposure.
Other Protective Equipments:	Lab coat to protect clothes.

Section IX - Physical and Chemical Properties

Boiling Point: Not determined (N/D) Vapor Pressure: N/D	Melting Point: N/D Specific Gravity: N/D
Evaporation Rate (n-butane=1): N/D	Vapor Density (air=1): N/D
Solubility in Water: Insoluble	
Appearance and Odor (Physical Form): Slightly viscous liquid with yellowish tint and a fruity/ketone odor.	
Flash Point: < 13°C	Upper explosivity limit: Not established (N/E) Lower explosivity limit: N/E

Section X - Stability and Reactivity

Stability: Stable
Conditions to Avoid: Heat, sparks and open flame.
Incompatibility (Materials to Avoid): Strong oxidizing agents.
Hazardous Decomposition Products: Oxides of Carbon.
Hazardous Polymerization Products: Will not occur.

Section XI - Toxicological Information

Carcinogenicity/Teratogenicity: No
<u>Effects and Hazards of Overexposure (Acute and Chronic)</u>
Effects and hazards of eye contact: May cause severe irritation.
Effects and hazards of skin contact: May cause mild irritation (by repeated or prolonged contact): symptoms may be include edema, erythema and itch.
Effects and hazards of Inhalation (Breathing): Depression of central nervous system: symptoms may be include cephalgia, dizziness, drowsiness, coordination deficiency, reflection reduction, speak confusedly, stunned condition and uncoscience. Irritation (upper respiratory tract): symptoms may be include pain to nose and throat, cough, sneeze.
Effects and hazards of Ingestion (Swallowing): May cause irritation of gastrointestinal tissues: symptoms may include pain, vomit, nausea, tautness of abdomen when pressed, blood in vomit and feces.
Effects for prolonged Exposure: Pneumonia from inhalation: symptoms may be include cough, respiratory difficulty, dyspnea, blood in expectoration and pneumonia that may be mortal.

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.

These information are for Acetone only

Persistence and degradability

B.O.D.5: 0,8 – 1 g/g

C.O.D.: 1,6 – 2 g/g

Biodegradability

The product is easily biodegradable. Do not put in sewers in large amounts because it can reduce oxygen in superficial waters. Use in accordance with good personal hygiene practices, avoiding to disperse the product in environment.

Environmental effects for Ethyl alcohol:

Aquatic toxicity: LC50 > 10000 mg/l (fish)

Section XIII - Disposal Considerations

Extinguish all ignition sources. Absorb spills with inert material and transfer to a suitable container for disposal. Dispose of in accordance with local regulations.

Section XIV - Transport Information

SEA TRANSPORTATION				
IMCO Number				
UN Number	1090			
Substance(s) determining hazard	Acetone.			
AIR TRANSPORTATION				
ICAO/IATA Class	3			
Substance(s) determining hazard	Acetone.			
TRANSPORTATION BY ROAD/RAILWAY				
<u>RID/AD</u> 3	Item 3 ^b	Hazard Identification 33	Substance Identification 1090	<u>Hazard</u> Mod.3
<u>R Class</u>	Number	Number	Number	<u>Label</u>

Section XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EC DIRECTIVES	
HAZARD IDENTIFICATION SYMBOL	F; Xi
R Sentences	
11	Highly flammable
36	Irritating to eyes
66	Repeated exposure may cause skin dryness or cracking
67	Vapours may cause drowsiness and dizziness
S Sentences	
2	Keep out of the reach of children
9	Keep in a well ventilated place
16	Keep away from sources of ignition - No smoking
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingredients determining the label	Acetone

Section XVI - Other Information

Acetone	LD ₅₀ (oral rat)	10,7 ml/Kg
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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.