

Kerr Material Safety Data Sheet

Premise Flowable

1. Product and company identification

Product name	: Premise Flowable
Material uses	: Dental product: Composite
Manufacturer	: Kerr Corporation 1717 West Collins Avenue Orange, CA 92867-5422 Telephone no.: 1-800-KERR-123
Prepared by	: IHS
In case of emergency	: CHEMTREC® (24 hours) U.S.: 1-800-424-9300 International: +1-703-527-3887

2. **Hazards identification**

Physical state	: Liquid. [Paste.]
Color	: Various
Odor	: Fruity ester-like
Emergency overview	
Signal word	: WARNING!
Hazard statements	: CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
Precautions	 Health effects are based on the uncured material. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effe	<u>cts</u>
Inhalation	 Irritating to respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	: No known significant effects or critical hazards.
Skin	: Irritating to skin.
Eyes	: Irritating to eyes.
Potential chronic health e	ffects
Chronic effects	: Contains material that may cause target organ damage, based on animal data.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Target organs	: Contains material which may cause damage to the following organs: upper respiratory tract, skin, bones, eye, lens or cornea.

Over-exposure signs/sy	<u>mptoms</u>
Inhalation	:

2. Hazards identification

Adverse symptoms may include the following: respiratory tract irritation coughing
: No specific data.
: Adverse symptoms may include the following: irritation redness
: Adverse symptoms may include the following: pain or irritation watering redness
: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

3. Composition/information on ingredients

Name	CAS number	%
glass, oxide, chemicals	65997-17-3	30-60
Poly(oxy-1,2-ethanediyl), α,α'-[(1-methylethylidene)di-4,1-phenylene]bis[ω-[(2-methyl- 1-oxo-2-propen-1-yl)oxy]-	41637-38-1	10-30
ytterbium trifluoride	13760-80-0	5-10
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	5-10
2-ethylhexyl 4-(dimethylamino)benzoate	21245-02-3	1-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid mea	sures	
Eye contact		cial measures are required. In case of contact with eyes, rinse immediately with of water. Get medical attention if symptoms occur.
Skin contact		cial measures required. In case of contact, immediately flush skin with plenty of Get medical attention if symptoms occur.
Inhalation	•	cial measures required. If inhaled, remove to fresh air. Get medical attention if oms occur.
Ingestion	conscio	out mouth with water. If material has been swallowed and the exposed person is ous, give small quantities of water to drink. Stop if the exposed person feels sick niting may be dangerous. Get medical attention if adverse health effects persist or vere.
Protection of first-aiders	person the res	e of major fire and large quantities: No action shall be taken involving any al risk or without suitable training. If it is suspected that fumes are still present, cuer should wear an appropriate mask or self-contained breathing apparatus. It e dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Antidote information		
Product/ingredient name		Antidote information

No antidote information known	
	ation of decomposition products in a fire, symptoms may be delayed. erson may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product Extinguishing media	: In a fire or if heated, a pressure increase will occur and the container may burst.
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Special exposure hazards	 In case of major fire and large quantities: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely
Environmental precautions	: Low release. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods for cleaning up	
Small spill	: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
Large spill	: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.
7 Handling and	storago

7. Handling and storage

Handling

Storage

No special measures are required for small quantities under normal and intended conditions of product use. For professional use only. Put on appropriate personal protective equipment (see Section 8). Handle with care and dispose in a safe manner.
 Store in accordance with local regulations. Store in original container protected from

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental containing.

8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m³	Other	ppm	mg/m³	Other	ppm	mg/m³	Other	Notations
glass, oxide, chemicals	US ACGIH 4/2014	-	5 10	-	-	-	-	-	-		[a] [b]
ytterbium trifluoride, as F	US ACGIH 4/2014 AB 4/2009	-	2.5 2.5	-	-	-	-	-	-	-	[0]
	BC 4/2014 ON 1/2013	-	2.5 2.5	-	-	-	-	-	-	-	
	QC 1/2014	-	2.5	-	-	-	-	-	-	-	

8. Exposure controls/personal protection

Form: [a]Respirable [b]Total dust

Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	atm the prof Ref	is product contains ingredients with exposure limits, personal, workplace osphere or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the necessity to use respiratory ective equipment. Reference should be made to appropriate monitoring standards. erence to national guidance documents for methods for the determination of ardous substances will also be required.
Engineering measures		special measures are required for small quantities under normal and intended ditions of product use.
Hygiene measures		special measures are required for small quantities under normal and intended ditions of product use.
Personal protection		
Respiratory		special measures are required for small quantities under normal and intended ditions of product use.
Hands	wor nec duri note glov	emical-resistant, impervious gloves complying with an approved standard should be in at all times when handling chemical products if a risk assessment indicates this is essary. Considering the parameters specified by the glove manufacturer, check ing use that the gloves are still retaining their protective properties. It should be ed that the time to breakthrough for any glove material may be different for different we manufacturers. In the case of mixtures, consisting of several substances, the ection time of the gloves cannot be accurately estimated.
Eyes	ass dus	ety eyewear complying with an approved standard should be used when a risk essment indicates this is necessary to avoid exposure to liquid splashes, mists or ts. If contact is possible, the following protection should be worn, unless the essment indicates a higher degree of protection: chemical splash goggles.
Skin		special measures are required for small quantities under normal and intended ditions of product use.
Environmental exposure controls		special measures are required for small quantities under normal and intended ditions of product use.

9. Physical and chemical properties

Physical state	: Liquid. [Paste.]
Flash point	: Not available.
Auto-ignition temperature	: Not available.
Flammable limits	: Not available.
Color	: Various
Odor	: Fruity ester-like
рН	: Not available.
Boiling/condensation point	: Not available.
Melting/freezing point	: Not available.
Relative density	: 2.5 [Water = 1]
Density	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Odor threshold	: Not available.
Evaporation rate	: Not available.

9. Physical and chemical properties

Viscosity
Solubility

: Insoluble in the following materials: cold water and hot water.

LogKow

: Not available.

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Not available.

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: Keep away from heat and direct sunlight. Heat can cause polymerization with rapid release of energy.
Incompatible materials	 Reactive or incompatible with the following materials: oxidizing materials and reducing materials. Amine. Peroxide.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

11. Toxicological information

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Product/ingredient name	Result	Species	Dose	Exposure
2,2'-ethylenedioxydiethyl dimethacrylate	LD50 Oral	Rat	10837 mg/kg	-
Conclusion/Summary	: Based on the criteria of the protocol, this product is considered non-cytotoxic per ISO 10993-5.			

Chronic toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitizer

Not available.

Conclusion/Summary

Skin

: Not available.

JAIN

: Kligman score: Grade I (weak sensitizer)

Carcinogenicity

		ati	

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
glass, oxide, chemicals ytterbium trifluoride	A4 A4	3 3	-	-	-	-

Mutagenicity

Not available.

Conclusion/Summary

: Not mutagenic in Ames test.

Teratogenicity

Not available.

Reproductive toxicity

11. Toxicological information

Not available.

12. Ecological information

Ecotoxicity Aquatic ecotoxicity Not available.	: No known significant effects or critical hazards.	
Persistence/degradability Not available.		
Partition coefficient: n- octanol/water	: Not available.	
Bioconcentration factor	: Not available.	
Mobility	: Not available.	
Toxicity of the products of biodegradation	: Not available.	
Other adverse effects	: No known significant effects or critical hazards.	
13. Disposal considerations		

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

TDG/IMDG/IATA

: Not regulated.

15. Regulatory information

United States inventory (TSCA 8b)	: All components are listed or exempted.
WHMIS (Canada)	: Class D-2B: Material causing other toxic effects (Toxic).
<u>Canadian lists</u>	
Canadian NPRI	: None of the components are listed.
CEPA Toxic substances	: The following components are listed: Inorganic fluorides
Canada inventory	: Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

International regulations

Premise Flowable

15. Regulatory information

International lists	Australia inventory (AICS): Not determined. China inventory (IECSC): Not determined. Japan inventory: Not determined. Korea inventory: Not determined. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): Not determined. Philippines inventory (PICCS): Not determined. Taiwan inventory (CSNN): Not determined.	
Chemical Weapons Convention List Schedule I Chemicals	Not listed	
Chemical Weapons Convention List Schedule Il Chemicals	Not listed	
Chemical Weapons Convention List Schedule III Chemicals	Not listed	

16. Other information

Label requirements		RACT, EYE AND SKIN IRRITATION. CONTAINS JSE TARGET ORGAN DAMAGE, BASED ON ANIMAL
Hazardous Material nformation System (U.S.A.)	:	
	Health	* 2
	Flammability	0
	Physical hazards	0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910. 1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

Date of issue	: 4/6/2015.
Date of previous issue	: No previous validation.
Version	: 1

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.