

**SAFETY DATA SHEET** 

Permlastic Catalyst (Regular; Heavy-Bodied)

Section 1. Identification				
GHS product identifier	: Permlastic Catalyst (Regular; Heavy-Bodied)			
Other means of identification	: Regular Permlastic; Heavy-Bodied Permlastic			
Product type	: Paste.			
Relevant identified uses of	the substance or mixture and uses advised against			
Product use	: Dental product: Denture impression material.			
Area of application	: Professional applications.			
Manufacturer	: Kerr Corporation 1717 West Collins Avenue Orange, CA 92867-5422 Telephone no.: 1-800-KERR-123			
e-mail address of person responsible for this SDS	: edwin.varela@kavokerrgroup.com			
Emergency telephone number (with hours of operation)	: CHEMTREC® (24 hours) U.S. : 1-800-424-9300 International: +1-703-527-3887			

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	Health effects are based on the uncured material.
Classification of the substance or mixture	: ACUTE TOXICITY (oral) - Category 4 CARCINOGENICITY - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1A TOXIC TO REPRODUCTION (Fertility) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2.5%
<u>GHS label elements</u> Hazard pictograms	
Signal word	: Danger

## Section 2. Hazards identification

Hazard statements	: Harmful if swallowed. May cause cancer.
	May damage the unborn child. Suspected of damaging fertility.
Precautionary statements	May cause damage to organs through prolonged or repeated exposure.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
Response	: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

# Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Other means of identification	:	Regular Permlastic; Heavy-Bodied Permlastic

CAS number	: Not applicable.
Product code	: Not available.
Ingredient name	0

Ingredient name	Other names	%	CAS number	
lead dioxide	lead dioxide	10-30	1309-60-0	

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 and hence require reporting in this section.

### Section 4. First aid measures

Description of necessary fi	rst aid measures
Eye contact	<ul> <li>No special measures are required. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.</li> </ul>
Inhalation	: No special measures required. If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Skin contact	: No special measures required. In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Get medical attention if adverse health effects persist or are severe.
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# Section 4. First aid measures

Section 4. Thist aid measures				
Most important symptoms/	effects, acute and delayed			
Potential acute health effe	ects			
Eye contact	: No known significant effects or critical hazards.			
Inhalation	: No known significant effects or critical hazards.			
Skin contact	: No known significant effects or critical hazards.			
Ingestion	: Harmful if swallowed.			
Over-exposure signs/sym	<u>ptoms</u>			
Eye contact	: No specific data.			
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations			
Skin contact	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations			
Ingestion	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations			
Indication of immediate me	dical attention and special treatment needed, if necessary			
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>			
Specific treatments	: No specific treatment.			
Protection of first-aiders	In case of major fire and large quantities: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.			

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

: Use an extinguishing agent suitable for the surrounding fire.
: Do not use water jet.
: No specific fire or explosion hazard.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides

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### Section 5. Fire-fighting measures

Special protective actions for fire-fighters	: 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.
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.

## Section 6. Accidental release measures

Personal precautions, protect	tive equipment and emergency procedures		
For non-emergency personnel	: Low release. For professional use only. Handling of product in very small amounts or in situations where release is highly unlikely		
For emergency responders	: Low release. See also the information in "For non-emergency personnel".		
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 and materials for containment and cleaning up

Small spill	<ul> <li>Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.</li> </ul>
Large spill	: Small Quantity. For professional use only. Absorb with an inert material and place in an appropriate waste disposal container.

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	<ul> <li>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.</li> </ul>
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: 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. Store locked up. 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 contamination.

# Section 8. Exposure controls/personal protection

Control parameters Occupational exposure limits

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# Section 8. Exposure controls/personal protection

Ingredient name		Exposure limits		
lead dioxide		ACGIH TLV (United States, 4/2014). TWA: 0.05 mg/m <sup>3</sup> , (as Pb) 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 50 μg/m <sup>3</sup> , (as Pb) 8 hours. NIOSH REL (United States, 10/2013). TWA: 0.05 mg/m <sup>3</sup> , (as Pb) 10 hours. OSHA PEL (United States, 2/2013). TWA: 50 μg/m <sup>3</sup> , (as Pb) 8 hours.		
Appropriate engineering controls	: No special measures are required for conditions of product use.	or small quantities under normal and intended		
Environmental exposure controls	: No special measures are required for conditions of product use.	or small quantities under normal and intended		
Individual protection measure	<u>ures</u>			
Hygiene measures	: No special measures are required for conditions of product use.	or small quantities under normal and intended		
Eye/face protection	assessment indicates this is necess gases or dusts. If contact is possible	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.		
Skin protection	-			
Hand protection	worn at all times when handling che necessary. Considering the parame during use that the gloves are still re noted that the time to breakthrough	es complying with an approved standard should be mical products if a risk assessment indicates this is eters specified by the glove manufacturer, check etaining their protective properties. It should be for any glove material may be different for different f mixtures, consisting of several substances, the be accurately estimated.		
Body protection	: No special measures are required for conditions of product use.	No special measures are required for small quantities under normal and intended conditions of product use.		
Other skin protection	based on the task being performed a	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.		
Respiratory protection	conditions of product use. Use a prop an approved standard if a risk asses	or small quantities under normal and intended perly fitted, particulate filter respirator complying with assment indicates this is necessary. Respirator or anticipated exposure levels, the hazards of the of the selected respirator.		

# Section 9. Physical and chemical properties

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рН	: Not available.			
Odor threshold	: Not available.			
Odor	: Fruity. [Slight]			
Color	: Brown. / Purple. Gray.			
Physical state	: Solid. [Paste.]			
Appearance				

## Section 9. Physical and chemical properties

•	• •
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: >1
Solubility	: Insoluble in the following materials: cold water and hot water.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not available.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
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.
Conditions to avoid	: Avoid excessive heat.
Incompatible materials	: Reactive or incompatible with the following materials: reducing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Not available.

### Irritation/Corrosion

Not available.

Conclusion/Summary

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### Section 11. Toxicological information

Skin

: Mucosal tissue: the average mucosal irritation score was within acceptable limits. The test article was not considered an irritant to the mucosal tissue of the rabbit and therefore not irritating to the mouth.

#### **Sensitization**

<b>J</b>	Route of exposure	Species	Result
Permlastic Catalyst (Regular; Heavy-Bodied)	skin	Guinea pig	Not sensitizing

#### **Mutagenicity**

Not available.

#### Carcinogenicity

Not available.

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
lead dioxide	-	2A	Reasonably anticipated to be a human carcinogen.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
lead dioxide	Category 2 Not determined		blood system, kidneys and nervous system

#### Aspiration hazard

Not available.

### Information on the likely : Routes of entry anticipated: Oral, Dermal, Inhalation.

routes of exposure

#### Potential acute health effects

Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.

: Harmful if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

Ingestion

: No specific data.

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## Section 11. Toxicological information

Inhalation	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	
Skin contact	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	
Ingestion	Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations	

Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
General	: May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	: May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: May damage the unborn child.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
Fertility effects	: Suspected of damaging fertility.

#### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
Oral	1864.2 mg/kg

# Section 12. Ecological information

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

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# Section 12. Ecological information

### **Bioaccumulative potential**

Not available.

### Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

: 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.

## Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	UN3077	UN3077	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (lead dioxide). Marine pollutant (lead dioxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead dioxide). Marine pollutant (lead dioxide)	Environmentally hazardous substance, solid, n.o.s. (lead dioxide)
Transport hazard class(es)	9	9	9
Packing group	III	Ш	Ш
Environmental hazards	Yes.	Yes.	Yes.
Additional information	Non-bulk packages of this product are not regulated as hazardous materials unless transported by inland waterway. The marine pollutant mark is not required when transported on inland waterways in sizes of ≤5 L or ≤5 kg. <u>Limited quantity</u> Yes. <u>Special provisions</u> 8, 146, 335, A112, B54, B120,	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules (EmS) F-A, S-F Special provisions 274, 335, 966, 967, 969 IMDG Code Segregation group 7 - Heavy metals and their salts (including their organometallic compounds) 9 - Lead and its compounds	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <b>Passenger and Cargo Aircraf</b> Quantity limitation: 400 kg Packaging instructions: 956 <b>Cargo Aircraft Only</b> Quantity limitation: 400 kg Packaging instructions: 956 <b>Limited Quantities -</b> <b>Passenger Aircraft</b> Quantity limitation: 30 kg Packaging instructions: Y956

## Section 14. Transport information

A97, A158, A179, A197

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according	: Not available.
to Annex II of MARPOL	
73/78 and the IBC Code	

# Section 15. Regulatory information

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U.S. Federal regulations	:	TSCA 8	(a) PAIR: Silo	xanes an	d Silicones, di	-Me, reaction	products with s	ilica
		United S	States invente	ory (TSC	A 8b): All com	ponents are li	isted or exempt	ted.
		Clean W	/ater Act (CW	<b>/A) 307</b> : I	ead dioxide; A	cetic acid, zin	c salt, hydrate	(2:1:2)
		Clean W	/ater Act (CW	<b>/A) 311</b> : /	Acetic acid, zin	nc salt, hydrate	e (2:1:2)	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Listed						
Clean Air Act Section 602 Class I Substances	1	Not liste	d					
Clean Air Act Section 602 Class II Substances	1	Not liste	d					
DEA List I Chemicals (Precursor Chemicals)	:	Not liste	d					
DEA List II Chemicals (Essential Chemicals)	;	Not liste	d					
<u>SARA 302/304</u>								
Composition/information o	<u>n i</u>	ngredien	<u>its</u>					
No products were found.								
SARA 304 RQ	:	Not appl	icable.					
<u>SARA 311/312</u>								
Classification	:		ate (acute) hea (chronic) hea					
Composition/information o	on i	ngredien	<u>its</u>					
Name			%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard

#### **SARA 313**

lead dioxide

Yes.

No.

10-30

No.

Yes.

Yes.

## Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	lead dioxide	1309-60-0	10-30
Supplier notification	lead dioxide	1309-60-0	10-30

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts	: The following components are listed: CALCIUM CARBONATE; LEAD DIOXIDE
New York	: None of the components are listed.
New Jersey	<ul> <li>The following components are listed: CALCIUM CARBONATE; LIMESTONE; LEAD DIOXIDE; LEAD OXIDE (PbO2)</li> </ul>
Pennsylvania	: The following components are listed: LIMESTONE; LEAD COMPOUNDS

#### California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	· · · · ·	Maximum acceptable dosage level
lead dioxide crystalline silica non-respirable		-	No. No.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



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 SDSs 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.

National Fire Protection Association (U.S.A.)



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# Section 16. Other information

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

<u>History</u>	
Date of issue/Date of revision	: 05/15/2015
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Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>
References	: HCS (U.S.A.)- Hazard Communication Standard International transport regulations

✓ 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.