

SAFETY DATA SHEET

Section 1. Product And Company Identification

Product Name: Herculite XRV

Product Use: Dental product: Composite

Manufacturer: Kerr Corporation

1717 W. Collins Ave. Orange, CA 92867-5422

U.S.A.

Information Phone Number: 1-800-841-1428 (Customer Service)

Chemical Emergency Phone Number (Chemical Spills, Leaks, Fire, Exposure or Accident only):

CHEMTREC 1-800-424-9300 (in the US) 1-703-527-3887 (Outside the US)

SDS Date of Preparation/Revision: January 3, 2019

Section 2. Hazards Identification

GHS Classification:

Acute Oral Toxicity Category 4
Skin Irritation Category 2
Eye Irritation Category 2A
Specific Target Organ Toxicity Single Exposure Category 3

Label Elements:

Warning!



Hazard Phrases

Harmful if swallowed.
Causes serious eye irritation.
Causes skin irritation.
May cause respiratory irritation.

Precautionary Phrases:

Do not breathe dust or vapors.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.



IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents and container in accordance with local and national regulations.

Section 3. Composition/Information on Ingredients

Component	CAS No.	Amount
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	72869-86-4	5-10%
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	5-10%
1,6-hexanediyl bismethacrylate	6606-59-3	5-10%
2,2'-ethylenedioxydiethyl dimethacrylate	109-16-0	5-10%
Hexamethylene diacrylate	13048-33-4	1-5%
3-trimethoxysilylpropyl methacrylate	2530-85-0	1-5%

Section 4. First Aid Measures

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Skin Contact: Flush thoroughly with water. Get medical attention if irritation or symptoms of exposure develop. Remove and launder contaminated clothing before re-use.

Eye Contact: Rinse thoroughly with water. Get medical attention if irritation occurs and persists.

Ingestion: Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. Keep the victim calm and warm. Get immediate medical attention.

Most important symptoms and effects, acute and delayed: Causes serious eye irritation and skin irritation. May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Harmful if swallowed. Irritating to mouth, throat and stomach.

Indication of immediate medical attention and special treatment, if needed: None required under normal conditions of use.

Section 5. Fire Fighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any media appropriate for the surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising from the Chemical: Combustion may produce carbon dioxide, carbon monoxide, nitrogen oxides, and metal oxides.



Special Protective Equipment and Precautions for Fire-fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored. Cool fire-exposed containers with water. Contain water used in firefighting from entering sewers or natural waterways.

Section 6: Accidental Release Measures

Personal precautions, Protective equipment, and Emergency procedures: Evacuate spill area and keep unprotected personnel away. Avoid contact with eyes, skin and clothing. Wear appropriate protective clothing and equipment.

Environmental Precautions: Avoid releases to the environment. Report spill as required by local and federal regulations.

Methods and Materials for Containment and Cleaning up: Prompt cleanup and removal are necessary. Absorb spills with an inert material and place in an appropriate waste disposal container.

Section 7. Handling and Storage

Precautions for Safe Handling: Prevent contact with eyes, skin and clothing. Always wear impervious gloves, chemical safety goggles and protective clothing when handling this material. Wash thoroughly with soap and water after handling. Do not eat, drink or smoke in the work area. Remove and wash contaminated clothing before reuse.

Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store in a cool, dry, well-ventilated area away from direct sunlight. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers.

Section 8. Exposure Controls / Personal Protection

Exposure Limits

Chemical	Exposure Limit
7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-	None Established
dioxa-5,12-diazahexadecane-1,16-diyl	
bismethacrylate	
Poly(oxy-1,2-ethanediyl), α,α'-[(1-	None Established
methylethylidene)di-4,1-phenylene]bis[ω-[(2-	
methyl-1-oxo-2-propen-1-yl)oxy]-	
1,6-hexanediyl bismethacrylate	None Established
2,2'-ethylenedioxydiethyl dimethacrylate	None Established
Hexamethylene diacrylate	1 mg/m ³ TWA AIHA WEEL
3-trimethoxysilylpropyl methacrylate	None Established



Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, an approved respirator with particulate cartridges is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with applicable regulations and good industrial hygiene practice. For firefighting, use selfcontained breathing apparatus.

Hand protection: Impervious gloves are suggested to prevent skin contact. Contact your glove supplier for selection assistance.

Eye Protection: Chemical safety goggles are recommended if contact is possible.

Skin Protection: Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

Hygiene measures: Suitable eye and skin washing facilities should be available in the work area.

Section 9. Physical and Chemical Properties

Appearance: Various colored paste Odor: Fruitv

Not available Not available **Odor Threshold:** pH: Not available Not available Melting/Freezing Boiling

Point/Range: Point:

Flash Point: Not flammable **Evaporation** Not available

Rate:

Flammability: (Solid, Not applicable **Flammability** LEL: Not applicable

Limits: **UEL**: Not applicable Gas)

Vapor Not available **Vapor Pressure:** Not available

Density:

Relative Density: 2.5 Solubilities: Insoluble in water

Partition Coefficient: Not available Autoignition Not available (N-Octanol/Water) Temperature:

Decomposition Not available Not available Viscosity:

Temperature:

Section 10. Stability and Reactivity

Reactivity: The product is not expected to be reactive.

Chemical Stability: Stable under normal storage and handling conditions. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to avoid: Avoid high temperatures, flames, sparks, and all sources of ignition. Heat can

cause polymerization with rapid release of energy.

Incompatible Materials: Oxidizing materials, reducing materials, peroxide, amine.

Hazardous decomposition products: None if stored normally.

Section 11. Toxicological Information

Potential Health Effects:



Inhalation: May cause respiratory irritation. Exposure to decomposition products may cause a health

hazard.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed. Irritating to mouth, throat and stomach.

Chronic Hazards: None expected.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: No data available. This product is not expected to cause respiratory

sensitization.

Germ Cell Mutagenicity: None of the components are mutagenic.

Carcinogen: None of the components are listed as a carcinogen or potential carcinogen by IARC, NTP,

ACGIH, or OSHA.

Developmental / Reproductive Toxicity: None of the components have been shown to cause

reproductive or developmental toxicity.

Specific Target Organ Toxicity (Single Exposure): By prolonged exposure, may cause minor irritation

to the respiratory tract and to other mucous membranes.

Specific Target Organ Toxicity (Repeated Exposure): No data available.

Aspiration Toxicity: Not an aspiration hazard.

Acute Toxicity Values:

2,2'-ethylenedioxydiethyl dimethacrylate: LD50 Oral rat: 10837 mg/kg

Hexamethylene diacrylate: LD50 Oral rat: 5000 mg/kg; LD50 Dermal rabbit: 3600 mg/kg

3-trimethoxysilylpropyl methacrylate: LD50 Oral rat: 23504 mg/kg

Section 12. Ecological Information

Toxicity: No data available

Persistence and degradability: Biodegradation is not applicable to inorganic substances.

Bioaccumulative Potential:

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate:

log Pow 3, potential for bioaccumulative is low

Poly(oxy-1,2-ethanediyl), α,α' -[(1-methylethylidene)di-4,1-phenylene]bis[ω -[(2-methyl-1-oxo-2-propen-1-

yl)oxy]- has a BCF of 2372, log P_{ow} 3.43 to 5.62, potential for bioaccumulative is high

2.2'-ethylenedioxydiethyl dimethacrylate: log P_{ow} 1.88, potential for bioaccumulative is low

Hexamethylene diacrylate: log Pow 2.81, potential for bioaccumulative is low

3-trimethoxysilylpropyl methacrylate: log Pow 2.1, potential for bioaccumulative is low

Mobility in Soil: No data available.

Other Adverse Effects: No data available.



Section 13. Disposal Considerations

Disposal: For unused product, dispose of in accordance with Federal and local regulations. **Container Disposal:** Dispose of empty container in accordance with Federal and local regulations.

Section 14. Transport Information

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
US DOT	None	Not Regulated			None
EU	None	Not Regulated			None
ADR/RID					
IMDG	None	Not Regulated			None
IATA/ICAO	None	Not Regulated			None

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 to Annex II MARPOL 73/78 and the IBC Code: Not applicable – product is transported only in packaged form.

Section 15. Regulatory Information

U.S. Federal Regulations:

EPA SARA 311/312 Hazard Classification: Refer to Section 2 for OSHA Hazard Classification.

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

Protection Of Stratospheric Ozone: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

International Inventories

US EPA TSCA Inventory: All of the components of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

Canada CEPA: All of the components of this material are listed on the DSL or exempt.

Section 16. Other Information

Effective Date: January 3, 2019



Supersedes Date: February 26, 2015

Revision Summary: All Sections – New SDS format

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